



**United Nations
Environment
Programme**



UNEP(OCA)/MED IG.8/7
2 August 1996

Original: ENGLISH

MEDITERRANEAN ACTION PLAN

Extraordinary Meeting of the Contracting
Parties to the Convention for the Protection
of the Mediterranean Sea against Pollution
and its Protocols

Montpellier, 1-4 July 1996

REPORT

**OF THE EXTRAORDINARY MEETING OF THE CONTRACTING
PARTIES TO THE CONVENTION FOR THE PROTECTION
OF THE MEDITERRANEAN SEA AGAINST POLLUTION
AND ITS PROTOCOLS**

UNEP
Athens, 1996

TABLE OF CONTENTS

	Pages
REPORT	1 - 21
Annex I : List of participants	
Annex II : Opening Statements	
Annex III : Agenda	
Annex IV : Approved Recommendations and Programme Budget for 1997	
Appendix MED POL-Phase III Programme for the Assessment and Control of Pollution in the Mediterranean Region	
Annex V : Mediterranean Commission on Sustainable Development (MCSD). Terms of Reference	
Annex VI : Mediterranean Commission on Sustainable Development (MCSD). Composition of the Commission	

Introduction

1. The Ninth Ordinary Meeting of the Contracting Parties to the Convention for the Protection of the Mediterranean Sea against Pollution and its Protocols (Barcelona, Spain, 5-8 June 1995) accepted the invitation of France to host an Extraordinary Meeting of the Contracting Parties to adopt the budget for 1997. Consequently, an Extraordinary Meeting of the Contracting Parties to the Convention for the Protection of the Mediterranean Sea against Pollution and its Protocols was held at the seat of the Regional Council of Languedoc-Roussillon, Montpellier, from 1 to 4 July 1996.

Attendance

2. The following Contracting Parties to the Barcelona Convention were represented at the Meeting: Algeria, Bosnia and Herzegovina, Croatia, Cyprus, Egypt, European Community, France, Greece, Israel, Italy, Lebanon, Malta, Monaco, Morocco, Slovenia, Spain, Tunisia and Turkey.

3. The following United Nations bodies and specialized agencies were represented by observers: United Nations Environment Programme (UNEP), Food and Agriculture Organization of the United Nations (FAO), World Health Organization (WHO), Intergovernmental Oceanographic Commission of Unesco (IOC), World Meteorological Organization (WMO), International Maritime Organization (IMO), International Atomic Energy Agency (IAEA) Marine Environment Laboratory in Monaco, Organization of African Unity (OAU) and Convention on Wetlands (RAMSAR).

4. The following intergovernmental and non-governmental organizations were also represented by observers: Amigos del Mediterraneo, Friends of the Earth International, Arab Office for Youth and Environment (AOYE), Association of Chambers of Commerce of the Mediterranean (ASCAME), Association de Protection de la Nature et de l'Environnement de Kairouan (APNEK), Centre des régions euroméditerranéennes pour l'environnement (CREE), Ecomediterrania, European Chemical Industry Council (CEFIC), Europe Conservation, Eurocoast, Fôret Méditerranéenne, Greenpeace International, Institut Méditerranéen de l'Eau (IME), Instituto Universitario de Ciencias Ambientales (SDA/ELS), Medcities, Medcoast, Medias-France, Medmaravis, Mediterranean Protected Areas Network (MEDPAN), Mediterranean Information Office for Environment, Culture and Sustainable Development (MIO/ECSDE), Station Biologique de la Tour du Valat, Sustainability Challenge Foundation and the World Wide Fund for Nature (WWF).

5. The Regional Marine Pollution Emergency Response Centre for the Mediterranean (REMPEC), the Regional Activity Centre for the Blue Plan (BP/RAC), the Regional Activity Centre for the Priority Actions Programme (PAP/RAC), the Regional Activity Centre for Specially Protected Areas (SPA/RAC), the Regional Activity Centre for Environment Remote Sensing (ERS/RAC), the Regional Activity Centre for Cleaner Production (CP/RAC) and the MAP Secretariat for 100 Mediterranean Historic Sites were also represented.

6. A complete list of participants is attached as Annex I to this report.

Agenda item 1: Opening of the meeting

7. As required by Rule 20 of the Rules of Procedure for Meetings and Conferences of the Contracting Parties, H.E. Mr Nourdine Benomar Alami, Minister for the Environment of Morocco and President of the Bureau of the Contracting Parties, elected by the Ninth Ordinary Meeting of the Contracting Parties, opened the Meeting.

8. The Meeting was privileged to hear addresses by H.E. Mr Benomar Alami, Minister for the Environment of Morocco, H.E. Ms Corinne Lepage, Minister for the Environment of France, Mr Jacques Blanc, President of the Languedoc-Roussillon Region, and Ms Elizabeth Dowdeswell, Executive Director of the United Nations Environment Programme (UNEP). The full text of their statements is attached as Annex II.

Agenda item 2: Rules of procedure

9. The Meeting noted that the Rules of Procedure adopted for Meetings and Conferences of the Contracting Parties to the Convention for the Protection of the Mediterranean Sea against Pollution and its Protocols (UNEP(OCA)/IG.43/6, Annex XI), as amended by the Eighth Ordinary Meeting, would apply to its deliberations.

Agenda item 3: Election of officers

10. In accordance with Rule 20 of the Rules of Procedure, the Bureau members elected at the Ninth Ordinary Meeting of the Contracting Parties, or their replacements, served as the Bureau for the Extraordinary Meeting as follows:

President:	H.E. Mr Nourdine BENOMAR ALAMI	(Morocco)
Vice-President:	Mr Alexandros LASCARATOS	(Greece)
Vice-President:	Mr Salah HAFEZ	(Egypt)
Vice-President:	Mr Dror AMIR	(Israel)
Vice-President:	Mr Slimane ZAOUCHE	(Algeria)
Rapporteur:	Ms Amparo RAMBLA	(Spain)

Agenda item 4: Adoption of the agenda and organization of work

11. The Meeting unanimously adopted the provisional agenda as well as the organization of work suggested by the Secretariat. The agenda is attached as Annex III to this report.

Agenda item 5: Credentials of representatives

12. In accordance with Rule 19 of the Rules of Procedure, the Bureau of the Contracting Parties met on 4 July 1996 under its President to examine the credentials of the representatives of Algeria, Bosnia and Herzegovina, Croatia, Cyprus, Egypt, European Community, France, Greece, Israel, Italy, Lebanon, Malta, Monaco, Morocco, Slovenia, Spain, Tunisia and Turkey attending the Extraordinary Meeting of the Contracting Parties to the Convention for the Protection of the Mediterranean Sea against Pollution and its Protocols, and agreed to accept all of them. However, the Bureau considered it essential at future meetings for each Party to have properly signed credentials according to the UN rules and regulations. The Bureau approved its report on 4 July 1996.

Agenda item 6: Progress report of the Executive Director on the implementation of the Mediterranean Action Plan in 1995/1996

13. Mr Lucien Chabason, Coordinator of MAP, reviewed briefly the progress report on the implementation of MAP in 1995/1996 (document UNEP(OCA)/MED IG.8/3), drawing attention to the many and important activities carried out during the biennium. He also noted that the situation of MAP finances had improved considerably. He pointed out, however, that certain activities were still hampered by shortage of funds and could not be financed under the MAP budget. On the question of mobilization of resources for implementing the Barcelona Resolution and activities, there was in fact still a large gap between needs and availability of funds.

14. Regarding information, he recalled that the Secretariat had prepared a document in English on the State of the Mediterranean Environment and a brochure in French on MAP, which had been distributed at the Meeting. The French and English versions respectively would be prepared by September 1996. Concerning information from countries on implementation of the Convention and the Protocols, the Secretariat felt that the mechanism by which countries submitted reports was still not operating efficiently and that a more effective means of relaying information should be sought.

15. During the discussion of the progress report, the representatives of the Contracting Parties agreed that during 1995 and 1996 much progress had been made in providing a more solid legal basis for the Barcelona system, which incorporated the principle of sustainable development and the environment and development concerns outlined by the United Nations Conference on Environment and Development (UNCED) in Rio in 1992.

The time had now come to focus on the implementation of the objectives set out in the revised Barcelona Convention and its Protocols. Many representatives also welcomed the steps taken towards the establishment of the Mediterranean Commission on Sustainable Development, which would be instrumental in promoting coordinated action with a view to achieving sustainable development. A number of representatives of Contracting Parties also described action taken in their countries to implement the objectives of MAP.

16. The representative of Greece took a positive position for the increase of the MAP budget by 7 per cent, regarding it as a prerequisite for the successful continuation of MAP. He emphasized the importance of MED POL as a major pillar of national action to protect the Mediterranean Sea in the coming years. In particular, his country attached major importance to educational activities and awareness raising. He also placed emphasis on the role played by the Regional Activity Centres and on the need for coordination between countries in thematically related fields, in particular in relation to cleaner production, an area in which the new UNIDO Centre being established in Athens could collaborate with the MAP CP/RAC in Barcelona. The workshop hosted by the Greek authorities in Santorini in cooperation with the Government of France earlier in the year had successfully drawn attention to the importance of developing policies for the integrated management of coastal areas. In continuity of this workshop Greece has undertaken, along with France and the MAP Unit, an initiative for coastal zones namely to develop the guidelines for the legislative protection of coastal zones in the Mediterranean basin. This initiative, to be sponsored by Greece and France, aims at providing a useful framework for action by other countries.

17. The representative of Malta observed that not all the priority targets set for action to combat pollution of the Mediterranean Sea had been achieved due to the inadequacy of national infrastructures to fulfil MAP objectives. Emphasis therefore needed to be placed on capacity-building at the national level, particularly with a view to the future implementation of the Protocol for the Protection of the Mediterranean Sea against Pollution from Land-Based Sources and Activities.

18. The representative of Cyprus reported that his country was engaged in the process of integrating the principles of environmental protection and sustainable development into its national law and policies. In view of the importance of the tourist industry in Cyprus, it was vital to safeguard the sea from pollution and coastal areas from degradation. Cyprus had already ratified four of the Protocols to the Barcelona Convention and was currently preparing to ratify the Protocol concerning Specially Protected Areas and Biological Diversity in the Mediterranean. It also looked forward to the adoption of the Protocol on the Transboundary Movements of Hazardous Wastes and their Disposal in the Mediterranean. Cyprus had benefited in many ways from the MED POL programme and fully supported its Phase III. In addition, it had benefited from services such as training and assistance in the development of contingency plans through the Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea (REMPEC) and the European Community, which he thanked for the support, as well as cooperation with other regional activity centres in the field of specially protected areas and coastal planning and

management. The implementation of MAP Phase II was an important development which needed to be consolidated by building up the new revised structure of MAP on the basis of experienced staff.

19. The representative of Tunisia, referring to the report on "*The State of the Marine and Coastal Environment in the Mediterranean Region*", which had been issued by the Secretariat in English, observed that it omitted certain information, for example on the treatment of liquid waste, and suggested that the appropriate modifications should be incorporated before the French version was published.

20. The representative of Egypt briefly described the action taken to protect the marine environment in Egypt. Following the adoption of legislation on this subject, national guidelines had been developed covering development activities in the Egyptian coastal area and had now come into force. They were provided to investors and their application was monitored. A period of three years, which could be extended for another two years, had been established for compliance by existing enterprises. A pollution abatement fund had been set up with assistance from the World Bank and other donors to provide loans and grants to enterprises to improve their environmental performance. Egypt was also the beneficiary of a technical assistance programme, undertaken in cooperation with Denmark and the Netherlands, to finalize the framework for a national coastal management plan, which would be submitted to the Ministers and other parties concerned at a national seminar later in 1996.

21. The Meeting took note with satisfaction of the Progress Report of the Executive Director on the Implementation of the Mediterranean Action Plan in 1995-1996 (document UNEP(OCA)/MED IG.8/3).

Agenda item 7: General discussion on the programme and budget of the Mediterranean Action Plan (MAP)

22. In the general discussion on the 1997 proposed budget, many representatives supported a 7 per cent increase in contributions by the Contracting Parties. They considered that this constituted the minimum level necessary to finance the expanded activities required to implement MAP Phase II, especially since a 7 per cent increase barely covered the inflation over the period since the present contribution level had been set. The increase would illustrate the political will and solidarity needed to achieve the objectives agreed to in Barcelona in 1995.

23. The representative of Turkey agreed that the proposed activities could only be implemented successfully if a substantial rise in financing were to be approved for the programme. However, certain countries might experience difficulties in accepting an overall increase of 7 per cent in their contributions. It might therefore be necessary to seek innovative ways of financing MAP activities, including the possibility of agreeing that certain countries could make a lower level of financial contributions and make up the difference through their support for specific activities, such as expert work or meetings.

National educational and scientific institutions and enterprises could also be encouraged to support certain activities. He concluded by stressing that the new legal instruments of the Barcelona system were a very good basis for taking concrete action and that, with the finalization of the Hazardous Wastes Protocol, the Parties would be in a position to better implement the common goals. Turkey always attached utmost importance to the Protocol, which would represent the basis for eliminating the critical problems related to the transboundary movements of hazardous wastes in the region, and looked forward to welcoming the Parties in Izmir for the relevant Meeting.

24. The representative of Algeria noted that his country, in the framework of the application of the Convention and its Protocols, had achieved important national investments to prevent pollution in the Bays of Annaba and Algiers. The institutional structure for the environment was totally established at the governmental and local levels (Wilaya and municipalities) as part of the implementation of Agenda 21 and MED 21. The structure also had a High Council for the Environment and Sustainable Development. The ever increasing participation of civilian society in the solution of environmental problems was encouraged. In this framework, three Algerian NGOs participated in the work of MAP. In addition, as to the financial difficulties faced by MAP, he strongly wished to see the Coordinating Unit, through its competent experts, becoming more and more an institution working for the achievement of concrete projects in the countries of the Mediterranean. To this effect, MAP could then seek funds from donors and become an indispensable partner of the Contracting Parties. He finally wished to see the CAMP Algeria started as soon as possible.

25. The representatives of France, Italy and Spain, because of the current financial constraints in their countries, supported the proposal for a 3.5 per cent increase in contributions as a means of maintaining a moderate level of growth of MAP. They were however prepared to make further contributions to support specific activities. France and Spain were ready to host the two 1997 meetings of the MCSD and Italy was prepared to host a meeting on the preparation of Action Plans as a follow up to the recently revised LBS Protocol.

26. The representative of Bosnia and Herzegovina said that his country hoped to receive full support in its activities from other Mediterranean countries. It wished to participate as fully as possible in MAP, despite its limited possibilities, and would request UNEP to send an appraisal mission to its country and advise on action to be taken. The proposed 1997 budget was acceptable and he supported the increase of 3.5 per cent although payment of his country's contribution would remain subject to its own constraints and was therefore very difficult to predict. He hoped that Bosnia and Herzegovina would be able to fulfil its obligations in that respect.

27. The observer for Ecomediterrania stated that even the proposed 7 per cent increase in the MAP budget was very limited and insufficient to support the action that was necessary to achieve the objectives of the programme. There was great concern among NGOs and the informed public that, although solutions had been identified within the context of MAP, the necessary resources had not been allocated for their implementation.

Agenda item 8: Proposed recommendations and programme budget for 1997 and contributions by the Contracting Parties to the Mediterranean Trust Fund (MTF) for 1997

28. After a lengthy discussion on the overall level of financial contributions of Contracting Parties towards the implementation of MAP activities in 1997, the Meeting agreed on an increase of 3.5 per cent in the ordinary contributions to the MTF and an extraordinary contribution of an additional 3.5 per cent. The extraordinary contributions of France, Italy and Spain would cover part of the cost of three meetings within the approved 1997 budget.

29. The representative of Morocco expressed the wish to see in the budget for 1998 a presentation note summarizing the political, strategic and priority criteria used by the Secretariat for elaboration of the budget.

30. The representative of the EC stressed the importance which the EC attached to the MAP activities and the achievement of concrete results, thanked the Secretariat for the efforts made in preparing the budget and for its new presentation, and suggested that future activities be presented, as far as possible, as projects so that potential donors could identify their particular interest.

31. The representative of France, while approving the budget for 1997, expressed the view that in future a more balanced presentation be made in the reports and in the allocation of funds among components and programmes to better reflect the new objectives and priorities of MAP II. In particular, he referred to the MED POL Programme which, for 1997, was provided with larger budgetary allocations than other components. The Coordinator assured the Meeting that MAP II priorities had been fully taken into account and that the MED POL component, which also included the implementation of the new LBS Protocol, was a priority of MAP II.

8.1 Programme Coordination

(a) Financial arrangements

32. The Coordinator introduced the proposed recommendations concerning financial arrangements listed in document UNEP(OCA)/MED IG.8/4.

33. The representative of Turkey proposed that the words "without prejudice, discrimination or hindrance" should be added after "develop" in Part 1.A paragraph 5 of document UNEP(OCA)/MED IG.8/4. After a discussion involving a number of representatives, the proposal was withdrawn on the basis and spirit of good cooperation.

34. The Meeting approved the recommendations and programme budget relevant to the agenda item as they appear in Annex IV to this report.

(b) Institutional arrangements

35. The Coordinator introduced the proposed recommendations concerning institutional arrangements listed in document UNEP(OCA)/MED IG.8/4. When drawing attention to the revised structure of the personnel at the Coordinating Unit, he emphasized that it did not involve any additional staff allocations in the 1997 budget.

36. The Meeting approved the recommendations and programme budget relevant to this agenda item as they appear in Annex IV to this report.

(c) Strategic priorities

37. The Coordinator introduced the proposed recommendations concerning strategic priorities listed in document UNEP(OCA)/MED IG.8/4.

38. The Meeting approved the recommendations and programme budget relevant to this agenda item as they appear in Annex IV to this report.

8.2 Sustainable Development in the Mediterranean

(a) Observation and systemic and prospective analysis of environment and development in the Mediterranean

Blue Plan/Regional Activity Centre (BP/RAC)

39. Mr M. Batisse, President of the Blue Plan/Regional Activity Centre (BP/RAC), introduced the relevant section of document UNEP(OCA)/MED IG.8/4. He also referred to the Blue Plan publications listed in document UNEP(OCA)/MED IG.8/Inf.1/Add.1. He noted that efforts were made to issue publications in both English and French but this had not yet been possible for the Blue Plan Fascicules for lack of allotted funds. He stated that the Centre's leading role in MAP's observatory function was exercised in close cooperation with the other MAP centres and the international and regional organizations concerned. This approach would be pursued in 1997 in collaboration with the national observatories that were being established in the region. He suggested that a reassessment of the first prospective analyses of the Blue Plan could be undertaken for the year 2000, taking into account the information and expertise acquired through its observatory function, with a view to issuing a new state of the art future-oriented report in that year. Proposals to this effect could be submitted to the next meeting of the Contracting Parties.

40. With regard to the financing of the Blue Plan, he noted that there was no provision so far for the continued functioning of the MAP observatory, which had been generously supported during its first phase by the European Commission. He strongly hoped that, with the support of the Contracting Parties and other partners, a solution would be found rapidly to this critical issue.

41. The representative of the EC underlined the interest to continue the activities of the MAP Observatory as an important regional tool for the identification of indicators of sustainable development in the Mediterranean.

42. The Meeting took note of the activities of the Blue Plan and approved the recommendations and programme budget relevant to this agenda as they appear in Annex IV to this report.

(b) Coastal planning and management

Priority Actions Programme/Regional Activity Centre (PAP/RAC)

43. Mr I. Trumbic, Acting Director of the Priority Actions Programme/Regional Activity Centre (PAP/RAC), introduced the relevant section of document UNEP(OCA)/MED IG.8/4. The activities of the Centre in 1997 would be concentrated on integrated coastal planning and management. To this effect, guidelines would be published and used widely in the implementation of coastal area management programmes. The Centre would focus on a small number of activities, including the priority areas of the management of solid and liquid wastes and the sustainable management of tourism.

44. The Meeting approved the recommendations and programme budget relevant to this agenda item as they appear in Annex IV to this report.

(c) Cleaner Production in the Mediterranean

Cleaner Production/Regional Activity Centre (CP/RAC)

45. Mr V. Macià, Director of the Cleaner Production/Regional Activity Centre (CP/RAC), introduced the relevant section of document UNEP(OCA)/MED IG.8/4. The objectives of the Centre were to disseminate information in Mediterranean countries on the concept of cleaner production, collaborate with other institutions in the region working in the same field, facilitate the transfer of technology and the adoption of a legal framework and practical measures. A vital component of the Centre's work was the promotion of a network of national focal points on cleaner production. A first meeting would be held for National Focal Points in 1996 and a second was being planned in 1997. Collaboration with other national and regional centres and focal points was essential for the effective dissemination of information and transfer of technology.

46. The Coordinator of MAP added that the proposal by Spain to establish the Centre had been approved by the Ninth Ordinary Meeting of the Contracting Parties in Barcelona in 1995, and the Centre had been authorized to present a programme of activities for 1997. The Centre would cooperate with other centres working in the same field, and particularly with the UNIDO Centre that was being established in Athens.

47. The representative of Tunisia reminded the Meeting that the International Environmental Technology Centre of Tunis had been established in June 1996 to work in the field of cleaner production, and would act as the Tunisian focal point in that area.

48. The Meeting approved the recommendations and programme budget relevant to this agenda item as they appear in Annex IV to this report.

(d) Coastal Areas Management Programme (CAMP)

49. The Coordinator introduced the relevant section of document UNEP(OCA)/MED IG.8/4. He informed the Meeting that, upon completion of some of the first generation CAMP programmes, he had been able to observe at first hand the value of the approach adopted, particularly in raising the awareness and capacity of the local authorities.

50. The observer for Medcities noted that town experts were undertaking activities parallel to those of the CAMP programme and said that they were available to cooperate with the programme.

51. The Meeting approved the recommendations and programme budget relevant to this agenda item as they appear in Annex IV to this report.

8.2.1 Adoption of the terms of reference of the Mediterranean Commission on Sustainable Development

52. The Coordinator introduced the draft terms of reference (document UNEP(OCA)/MED IG.8/6) and the Secretariat's proposal on the Commission's composition (UNEP(OCA)/MED IG.8/6/Add.1). He explained that the draft terms of reference had been discussed at length at the Meeting of the MAP National Focal Points held in Athens from 6 to 10 May 1996 and that the Meeting had recommended that they be adopted by the Contracting Parties (UNEP(OCA)/MED WG.111/6, paragraph 82).

Terms of reference of the Commission

53. After the Secretariat had clarified a number of points raised by representatives, it was decided to amend the first sentence of paragraph E.7 in order to allow for the possibility of holding extraordinary meetings. It was confirmed that the term "socio-economic actors" included business, industry and agriculture, and that the NGO category applied to the environmental NGOs.

54. Following an exchange of views on the need for a reference to the MAP Mediterranean Environment and Development Observatory, it was decided to delete the word "in particular" in paragraph B.3(g).

55. The representative of Egypt considered that the function, structure and rules of procedure of the Mediterranean Commission should be aligned on those of the United Nations Commission on Sustainable Development. He stressed that the Commission should constitute a forum for dialogue among partners to assist in the implementation of a regional strategy of sustainable development in the Mediterranean. If paragraph B.3(a) of document UNEP(OCA)/MED IG.8/6 was amended to clarify that function, he could agree with the whole text of the document. He also stressed the importance of the role of the NGOs in the work of MAP and the Commission while emphasizing that the Contracting Parties constituted the highest body.

56. The representative of Israel, supported by the representative of Greece, said that a four-year term of office was too long for members of an advisory body and proposed that it be reduced to two years until the year 2002, when it should be reviewed. A shorter term of office would allow greater representativeness of NGOs; since all members of the Commission would be on an equal footing, it would not be possible for the NGOs to have alternates and observers. To meet Egypt's concern, he suggested that the words "to the Contracting Parties" could be added after "proposals" in paragraph A.1 of document UNEP(OCA)/MED IG.8/6.

57. The representative of Malta supported a four-year term of office as too frequent changes might lead to less effective work. He suggested amending the text to ensure that the interests of small island States were taken fully into consideration.

58. The representative of Turkey proposed that the Focal Points provide information on and act as a coordination centre for the nomination of candidates. He also considered that the importance of industry should be stressed in selection criteria and that that section of document UNEP(OCA)/MED IG.8/6/Add.1 should be reformulated to take account of the concerns expressed.

59. The observer for MIO welcomed the inclusion of NGO representatives as full members of the Commission, but drew attention to the problem of ensuring representativeness in the selection procedure.

60. The President stressed that the draft terms of reference had been extensively discussed by the MAP National Focal Points. The role of the present meeting was to ensure that the documents prepared by the Secretariat faithfully reflected the decisions taken by the Focal Points; it was not to reopen discussion on the subject as a whole.

61. The Coordinator read out a reformulation of the draft Terms of Reference of the Commission taking into account the views expressed.

62. The Meeting adopted the draft Terms of Reference of the Mediterranean Commission on Sustainable Development (MCSD), as amended (see Annex V).

Composition of the Commission

63. In discussions on the *modus operandi* for selecting members of the Commission proposed in document UNEP(OCA)/MED IG.8/6/Add.1, observers for several NGOs expressed their concern at various parts of the text; in particular, they wished the term of office to be identical for all members of the Commission and advocated that, to ensure representativeness, NGOs be allowed to have alternates and observers.

64. The observer for APNEK informed the Meeting that the NGOs had held a discussion meeting in Montpellier, organized by CLAPE and the SPNLR with the support of MIO/ECSDE. Concerning the Mediterranean Commission for Sustainable Development, the Meeting formulated comments and remarks which were presented by its Chairman to the Contracting Parties. The organizers and the representatives of NGOs attending the Meeting thanked MAP and the Regional Council of Languedoc-Roussillon for the moral and concrete support. In response to a remark made by the observer for EUROCOAST, the observer for APNEK underlined that the conclusion of the above mentioned Meeting represented the view of 17 NGOs.

65. The President suggested that the paper be submitted to the Secretariat and that a small working group be set up to finalize the *modus operandi* for selecting the respective representatives to serve on the Commission, taking into consideration the comments made by the Meeting and the views expressed in the paper from 17 NGOs.

66. The Meeting decided to establish a small working group, under the Chairmanship of Tunisia, comprising representatives of France, Egypt, Greece and Turkey, in accordance with the President's suggestion.

67. The representative of Tunisia, speaking as chairman of the working group, reported that the group had agreed on a text, which had been circulated to the Meeting and which had taken into account the Meeting of NGOs.

68. The representative of France stressed that the joint efforts of the Contracting Parties and the NGOs had produced a body which represented a positive exception in the UN system as to the total representation of civilian society. As to the duration of the mandate, he underlined that the choice of two years for socio-economic actors, local authorities and NGOs had been made to facilitate the association of more numerous representatives in time. As to the Contracting Parties, the foreseen duration was of four years. Each Party had the possibility to change its representation. He underlined that equality had been assured concerning the principle of alternate members, as requested by the NGOs. Having alternates meant that the Parties as well as the NGOs had representatives who had to be nominated *ad personam*. He finally concluded that, in practice, the statute of the Commission could be completed or modified.

69. Observers for several NGOs expressed their concern that additional NGOs not directly represented on the Commission would not be allowed to attend as observers. NGOs provided input for the implementation of the Mediterranean Action Plan and should be able to participate as observers in an advisory body such as the Commission, as was the case in the United Nations Commission on Sustainable Development.

70. The representative of Greece said that the NGOs selected for the Commission would not only be representing their own organizations but also the views of other NGOs and those that were not members could make their views known during NGO coordination meetings held prior to meetings of the Commission.

71. The representative of Israel pointed out that representatives of local authorities, socio-economic actors and NGOs together accounted for a percentage of extra-governmental membership of around 40 per cent.

72. The observer for Medcities expressed regret that local authorities would not be able to submit their candidatures directly to the MAP Secretariat.

73. The representative of France stressed that in some countries local authorities had to receive authorization from the government before submitting their candidature. However, he was convinced that, in the interest of the Mediterranean, such a procedure would be treated in a flexible way.

74. The representative of Spain suggested that the network of local authorities be allowed to submit their candidatures directly, provided that they informed the government accordingly.

75. The observer for Eurocoast proposed that a footnote be inserted to the effect that the Commission's composition and selection procedures could be modified by the Contracting Parties in the light of experience.

76. The Contracting Parties adopted the *modus operandi* for the composition and selection of representatives as amended (Annex VI).

8.3 Conservation of nature, landscape and sites

(a) Specially protected areas

Specially Protected Areas/Regional Activity Centre (SPA/RAC)

77. Mr C. Rais, Expert-Marine Biologist of the Specially Protected Areas/Regional Activity Centre (SPA/RAC), introduced the relevant section of document UNEP(OCA)/MED IG.8/4. He informed the Meeting that, since the last Contracting Parties' Meeting, the Centre had worked on the preparation of the three annexes to the Protocol concerning Specially Protected Areas and Biological Diversity in the Mediterranean. To this effect, two meetings of experts had been organized in Montpellier (November, 1995) and Tunis (March 1996), and the draft annexes produced had been revised by the Third Meeting of the National Focal Points for SPA.

78. The Centre's main activities for 1997 would include the elaboration of guidelines and common methodologies for the preparation of inventories and for the setting up and the evaluation of management plans for SPAs. The Centre would pursue its training activities taking into account the relevant recommendations issued by the Third Meeting of National Focal Points for SPA. In addition, SPA/RAC would evaluate the implementation of the three Action Plans adopted for the conservation of endangered species (monk seal, marine turtles and cetaceans).

79. Finally he pointed out that, in the implementation of its programmes, SPA/RAC had received and continued to receive support from the Tunisian authorities as well as national, international and non-governmental organizations, and expressed to them the gratitude of the Tunis Centre.

80. The representative of Monaco called for the strengthening of participation of MAP, through SPA/RAC, in European fora, in particular in relation to the Convention on the Conservation of European Wildlife and Natural Habitats (Bern Convention) and the Pan European strategy for biological and landscape diversity resulting from the "Environment for Europe" process (Ministerial Conference, Sofia, 1995). Other representatives expressed support for this recommendation.

81. The representative of Israel added that the Centre should also intensify its dialogue in the context of the Ramsar Convention and the MedWet Programme.

82. Concerning the annexes to the SPA Protocol, the Coordinator noted that a proposal had been made that a Conference of Plenipotentiaries preceded by a one-day meeting of experts be convened with a view to adopting the three annexes. These meetings could be held in conjunction with two meetings to be held in Monaco on the agreement on cetaceans under preparation within the CMS (Bonn Convention) later this year.

83. In response, the representative of Monaco indicated that he was not yet in a position to be able to give a definitive answer to the above proposal, although he hoped to be able to do so soon.

84. The observer for the Ramsar Convention drew attention to the document entitled "*The Venice Declaration on Mediterranean Wetlands and the Mediterranean Wetlands Strategy*", adopted at the Mediterranean Wetlands Conference held in Venice from 5 to 9 June 1996. The Conference was the culmination of the first phase of the MedWet project, aimed at developing tools for effective wetland conservation and sustainable use in five European Union countries in the Mediterranean region which was funded by the European Commission and supported by the five countries concerned and a number of NGOs, with the Ramsar Convention Secretariat playing a catalytic role. The MedWet initiative was currently being expanded to non-European Union countries in the Mediterranean region through projects being developed under the Global Environment Facility and the EU LIFE scheme and implemented by the Ramsar Secretariat. The Mediterranean Wetlands Strategy was intended as a tool for pan-Mediterranean action in that domain and he hoped that the Barcelona Convention mechanisms would work in synergy with the Ramsar Convention so as to contribute to the sustainable development of the Mediterranean area; in particular, he considered that implementation of the Mediterranean Wetlands Strategy could be a prime subject for inclusion in the work of the Mediterranean Commission on Sustainable Development.

85. The Coordinator welcomed the work referred to as a new stage in cooperation between States and NGOs on the conservation of the environment.

86. The Meeting approved the recommendations and programme budget relevant to this agenda item as they appear in Annex IV to this report.

(b) *Programme for the 100 Coastal Historic Sites of Common Mediterranean Interest*

87. Mr D. Drocourt, Director of the Atelier du Patrimoine de la Ville de Marseille, responsible for the activity on Historic Sites, introduced the relevant section of document UNEP(OCA)/MED IG.8/4, referring to the multiple contacts pursued with international organizations working in the field and emphasizing that the municipality of Marseille financed over half of the work carried out by the Atelier. The proposed recommendations set out in the document under discussion concerned the continuation of activities requested by the Contracting Parties.

88. The Coordinator recalled that the recent Focal Points Meeting held in Athens in May 1996 had reached no consensus on the activities and the pertinent budget proposed for 1997, which were therefore to be discussed by the Contracting Parties.

89. Several representatives pointed to the need to assess the relevance of the activities of the Atelier to the fundamental objectives of MAP, particularly at a time of economic constraints, although they did not wish to belittle the significance of the 100 Historic Sites.

90. Following an exchange of views, the Meeting decided that the role and functions within MAP of the Secretariat of the 100 Historic Sites should be defined after the review of the role, functions and structures of all the Regional Activity Centres. Meanwhile, the credits proposed to be assigned to the Historic Sites for 1997 should be transferred to CAMP activities with the request that particular attention be paid to the historic heritage where relevant. The current year would be used to complete the projects being carried out by the Atelier, and the Contracting Parties could take a decision next year on the basis of the review conducted.

91. The representative of Greece agreed with the proposal and suggested that, if certain activities were to be pursued, the 100 Historic Sites Secretariat should seek finance from outside MAP as indicated in document UNEP(OCA)/MED IG.8/4 Add.1.

92. The representative of Israel fully agreed with the Secretariat proposal and the suggestion made by Greece, and asked the Secretariat to prepare a report on the activities carried out.

93. The Coordinator pointed out that the subject would be of interest to Unesco and that the Secretariat would consult that organization regarding possible cooperation on the matter.

94. The Meeting agreed to the Secretariat proposal.

8.4 Assessment, prevention and elimination of marine pollution

(a) MED POL Phase III

95. The Deputy Coordinator introduced the recommendations relevant to assessment, prevention and elimination of marine pollution, as contained in document UNEP(OCA)/MED IG.8/4, as well as document UNEP(OCA)/MED IG.8/5 covering MED POL Phase III, the Programme for the Assessment and Control of Pollution in the Mediterranean Region, which had been discussed by the Meeting of MED POL National Coordinators (Athens, 18-22 March 1996) and approved by the Meeting of MAP Focal Points (Athens, 6-10 May 1996). The relevant section of document UNEP(OCA)/MED IG.8/4 also contained assessments of the state of pollution of the Mediterranean Sea by zinc, copper and their compounds; by detergents; and by microbiological pollution; the related control measures; and common action for prevention and control of microbiological pollution. He observed that MED POL Phase III was designed to cover the next ten years and that the main change in orientation in comparison with MED POL Phase II was the shift in emphasis from pollution assessment to pollution control, which made MED POL Phase III a suitable tool for sustainable development.

96. The representative of Tunisia recalled the reservation expressed by his delegation during the Meeting of MAP Focal Points concerning the proposal to set up an Advisory Group of Experts for MED POL. There was already sufficient scientific capacity at the Coordinating Unit and a well-established tradition of exchanges of views and information with experts. He therefore questioned the need to create another institutionalized level of advisory capacity.

97. After a brief discussion, the Meeting decided that, while any specific reference to such an advisory group of experts could be deleted from the recommendations and programme budget, the Secretariat should be empowered to call upon experts or groups of experts for assistance on specific issues as necessary.

98. The representative of Malta informed the Meeting that his country was offering to host the Second Meeting of Government-designated experts to prepare Guidelines for the Management of Dredged Material and to cover local expenses.

99. The observer for the Intergovernmental Oceanographic Commission (IOC) of UNESCO referred to the contribution that his Organization had made over the years to the development and implementation of MED POL. IOC would continue to consider very favourably ways and means of strengthening its cooperation with MAP. IOC provided scientific advice for effective coastal zone management and sustainable development of coastal areas and their resources at both the national and regional levels. It also supported and facilitated open sea research and observations, which were an integral part of any assessment of the state of the marine environment. The Global Ocean Observing System (GOOS) could also complement national compliance monitoring programmes.

100. The Meeting approved the recommendations and programme budget relevant to MED POL Phase III and activities related to land-based pollution as they appear in Annex IV to this report. It also adopted MED POL Phase III, Programme for the Assessment and Control of Pollution in the Mediterranean Region (1996-2005), as contained in the Appendix of Annex IV.

101. The observer for Greenpeace International informed the Contracting Parties of the proposed dumping of radioactive waste in the sub-seabed by Oceanic Disposal Management (ODM), a company now based in Switzerland; Greenpeace had been informed of the proposed activities by citizens of Sierra Leone and, when the Italian authorities had been informed, had learned that the Director of ODM was already under investigation for alleged similar illegal activities and had contacted potential customers through national consulates and by electronic communications. She undertook to provide specific information on the matter to the Secretariat. She concluded by inviting all Contracting Parties to adopt, in Izmir, the Protocol on Hazardous Wastes which should include radioactive wastes.

(b) Prevention and combating pollution from ships

Regional Marine Pollution Emergency Response Centre (REMPEC)

102. The observer for the International Maritime Organization (IMO) said that 1996 was the 20th anniversary of the establishment of the Centre now called the Regional Marine Pollution Emergency Response Centre (REMPEC) which, since its inception, had been administered by IMO to achieve the objectives and perform the functions agreed by the Contracting Parties. IMO viewed REMPEC as an integral part of its global strategy for capacity building for protection of the marine environment against sea-based pollution and felt that the time had come to evaluate its achievements and assess its future role in the Mediterranean. REMPEC was a practical, cost-effective body which had a broader preventive role to play in the new wider context of MAP Phase II. IMO recommended that the issue of regional cooperation in that field, the need for revision of the Emergency Protocol and the role and function of REMPEC should be considered by the forthcoming REMPEC Focal Points meeting which should submit a proposal on the subject to the Contracting Parties. In that connection, IMO was ready to prepare with REMPEC the relevant background documentation and proposals to assist the Focal Points Meeting in its work, bearing in mind financial realities and the possibility of obtaining financial help from donor agencies. He wished the Contracting Parties every success in their work and pledged IMO's continuing support to making the Mediterranean a safer and cleaner sea.

103. Finally, he paid tribute to the Government of Malta for continuing to host REMPEC and looked forward to holding further discussions with the Government of Malta on the future steps to be taken in relation to the relocation of REMPEC in better premises.

104. The representative of Malta described its continuing efforts to relocate REMPEC and referred to the excellent relations between his Government and IMO. Malta was prepared to spend the necessary sum of US\$ 350,000 to refurbish the premises and reaffirmed its political commitment to REMPEC, which should receive a letter to that effect in the very near future.

105. The Minister of Malta said that he had taken note of the IMO statement, and that his country would prepare its stance according to what it deemed to be in the best interests of the Contracting Parties. Furthermore, the next REMPEC Focal Points Meeting would address the issue and report to the Contracting Parties at their next meeting.

106. The representative of Egypt requested confirmation that the four recommendations made by IMO would be considered at the next Focal Points Meeting. He proffered his sincere thanks to REMPEC and to the European Union for continuing to support the subregional project involving Egypt, Cyprus and Israel.

107. The representative of Israel joined Egypt in thanking REMPEC and the European Union for their assistance and in requesting that the IMO recommendations be examined by the REMPEC Focal Points Meeting.

108. The Meeting took note of the IMO declaration and agreed that the proposals and recommendations made therein would be presented at the next REMPEC Focal Points Meeting.

(c) Environment Remote Sensing

Environment Remote Sensing/Regional Activity Centre (ERS/RAC)

109. Mr M. Raimondi, Director of the Environment Remote Sensing Regional Activity Centre (RAC/ERS) summarized the activities carried out by the Centre, emphasizing that most of them had already been completed and the relevant documentation made available. He also informed the Meeting that three proposals had been submitted to the EC for funding, underlining that such funding would be needed in order to implement new activities in 1997 since the proposed MAP budget allocation was not commensurate with the recommendations submitted for approval to the Contracting Parties. He had also participated in several international scientific conferences at which he had stressed the role and importance of RAC/ERS and MAP. In conclusion, he confirmed his willingness to continue to work for the benefit of the Mediterranean environment, despite budgetary restrictions.

110. The Meeting approved the recommendations and programme budget relevant to RAC/ERS, as they appear in Annex IV to this report.

8.5 Information and participation

111. The Coordinator introduced the proposed recommendations concerning information and participation set out in document UNEP(OCA)/MED IG.8/4 and drew attention to the publication of a document entitled "*The State of the Marine and Coastal Environment in the Mediterranean Region*" in English and of a brochure entitled "*Le Plan d'action pour la Méditerranée*" in French; translations into French and English respectively would be published in the near future. Continuing its work on information, the Secretariat would soon produce a leaflet on MAP for distribution as a communication tool.

112. The observer for Eurocoast said that the NGOs, with their limited resources, faced difficulties in producing and distributing information and requested support in that regard. Moreover, on the subject of training of decision-makers, the transfer of knowledge was inadequate and he hoped that MAP could give some help so that integrated coastal management would become more effective.

113. The Meeting approved the recommendations and programme budget relevant to this agenda item as they appear in Annex IV to this report.

8.6 Status of legal framework

114. The Coordinator introduced the proposed recommendations on strengthening of the legal framework set out in document UNEP(OCA)/MED IG.8/4.

115. The Meeting approved the recommendations and programme budget relevant to this agenda item as they appear in Annex IV to this report.

Agenda item 9: Date and place of the Tenth Ordinary Meeting of the Contracting Parties

116. The representative of Tunisia confirmed the offer of his country to host the Meeting of the Contracting Parties in 1997, suggesting September as a suitable date. The Meeting unanimously accepted the offer, and thanked the Government of Tunisia for the support.

117. The Minister of Malta expressed the wish of his country to host the Meeting of Contracting Parties in 1999. The Meeting accepted the offer and thanked Malta for the support.

Agenda item 10: Other business

118. The representative of Greece drew attention to the new brochure on MAP. While welcoming the initiative, for which there had been a pressing need, he regretted that little reference had been made to the Coordinating Unit, the role of the host country, the contribution of the staff of the Coordinating Unit and the many activities that it carried out.

119. The Coordinator noted that the prime purpose of the brochure was to describe the activities rather than the institutions of MAP, but assured the representative of Greece that appropriate reference would be made to the host country and to the Unit when the English version was published and the French version reprinted.

Agenda item 11: Adoption of the report of the meeting

120. The Meeting unanimously adopted its report in four languages on Thursday, 4 July 1996.

Agenda item 12: Closure of the meeting

121. Mr J. Blanc, President of the Region Languedoc-Roussillon, expressed deep appreciation for the excellent work of the Chairman during the Meeting and for the efficiency of the MAP secretariat. He recalled that a Conference of Mediterranean Regions had recently been held and that the participants had expressed great interest in the establishment of the Mediterranean Commission for Sustainable Development. He also stressed the importance and the role that the Commission, the first regional body to be created after Rio, would have in the future for the sustainable development of the Mediterranean Region. He concluded by expressing his personal satisfaction for having hosted such an important meeting at the Hotel de Region Languedoc-Roussillon.

122. T. Melvasalo, Director of Water Unit of UNEP, thanked the organizers of the Meeting for the efficient work and the excellent premises put at the disposal of the participants. She expressed admiration for the Chairman and for the efficiency shown in the discussions and the negotiations. She noted that the Mediterranean had now a very modern and efficient system for the protection and development of the region and she confirmed that MAP continued to be a model for the other regional programmes of UNEP.

123. The Chairman noted with satisfaction that all decisions made by the Contracting Parties had shown full consensus and spirit of cooperation. Before closing the Meeting, he made some suggestions which could assist the future work of MAP. As regards to the Budget, he stressed that it should be prepared by activity and by programme and not by centre and that it should reflect the priorities expressed in previous meetings as well as the enlarged competence of MAP. He also wished to see closer contacts with financial donors. As to the Mediterranean Commission for Sustainable Development, he insisted that in order to perform an efficient work, all actors should as soon as possible identify the areas which the Commission should work on, thus avoiding any confusion and waste of time. With reference to the future structure of MAP, he asked UNEP to consider filling the future vacant posts with Mediterranean nationals and he stressed that, in doing so, a fair geographical repartition should be taken into account also in the case of the recruitment of temporary experts. He closed the Meeting at 13,00 hours of 4 July 1996.

ANNEXE I

LIST OF PARTICIPANTS LISTE DES PARTICIPANTS

**ALGERIA
ALGERIE**

Mr Slimane Zaouche

Directeur Général Environnement
Secrétariat d'Etat auprès
du Ministre de l'Intérieur
des Collectivités locales et
de l' Environnement chargé
de l'Environnement
6 Place el Qods, Hydra
Alger
Algérie

Tel: (213) (2) 590502

Fax: (213) (2) 605072

Chef de la délégation

**BOSNIA AND HERZEGOVINA
BOSNIE-HERZEGOVINE**

Mr Munever Imamovic

Ministry of Physical Planning,
Natural Resources and Environment
Titova 7A
71000 Sarajevo
Bosnia and Herzegovina

Tel: (387) (71) 472188

Fax: (387) (71) 472188

Head of delegation

**CROATIA
CROATIE**

Mr Nenad Mikulic

Deputy Director
State Directorate for Environment
Ulica grada Vukovara 78
HR-10000 Zagreb
Croatia

Tel: (385) (1) 6118970

Fax: (385) (1) 6118970/537203

Head of delegation

Ms Maja Sersic

Professor of International Law
Faculty of Law University of Zagreb
Cirilopetodska 4
10000 Zagreb
Croatia

Tel: (385) (1) 424333

Fax: (385) (1) 423640

Alternative Head of delegation

**CYPRUS
CHYPRE**

H.E. Mr Costas Petrides

Minister of Agriculture, Natural Resources
and Environment
Nicosia
Cyprus

Tel: (357) (2) 302245

Fax: (357) (2) 445156

Tlx: 605-4660 MINAGRI CY

Head of delegation

Mr Andreas Demetropoulos

Director
Department of Fisheries
Ministry of Agriculture, Natural Resources
and Environment
13 Aeolou
Nicosia
Cyprus

Tel: (357) (2) 303279

Fax: (357) (2) 365955

Tlx: 605-4660 MINAGRI CY

Alternative Head of delegation

Mr Constantinos Eliades

First Secretary
Embassy of the Republic of Cyprus
23 rue Galibée
75116 Paris
France

Tel: (33) (1) 47208628

Fax: (33) (1) 40701344

**EGYPT
EGYPTE****Mr Salah Hafez**

Chief Executive Officer
Egyptian Environmental Affairs
Agency (EEAA)
Cabinet of Ministers
17, Teiba Street,
El Mohandseen/Dokki
Giza, Cairo
Egypt

Tel: (202) 3601191, 3601164

Fax: (202) 3610764, 3498975

Tlx: 93794 WAZRA UN

Head of delegation**Mr Mohamed Abdel-Rahman Fawzi**

Head of Environmental Management Sector
Egyptian Environmental Affairs
Agency (EEAA)
Cabinet of Ministers
17, Teiba Street,
El Mohandseen/Dokki
Giza, Cairo
Egypt

Tel: (202) 361191, 3604364

Fax: (202) 3610764, 3498975

Tlx: 93794 WAZRA UN

Mr ElDeeb Abdel Ghaffar

Director Department of Environment and
Sustainable Development
Ministry of Foreign Affairs
Muspira
Cairo
Egypt

Tel & Fax: (20) (2) 5747847

**EUROPEAN COMMUNITY
COMMUNAUTE EUROPEENNE**

Mr Fernand Thurmes

Directeur

Direction générale de l'environnement, sécurité
nucléaire et protection civile

Commission Européenne

200 rue de la Loi

1049 Bruxelles

Belgium

Tel: (32) (2) 2953730, 2991111

Fax: (32) (2) 2960746

Tlx: COMEU B 21877

Chef de la délégation

Mr Tanino Dicorrado

Administrateur Principal

Direction générale de l'environnement, sécurité
nucléaire et protection civile

Commission Européenne

200 rue de la Loi

1049 Bruxelles

Belgium

Tel: (32) (2) 2953730, 2991111

Fax: (32) (2) 2960746

Tlx: COMEU B 21877

**FRANCE
FRANCE**

S.E. Mme Corinne Lepage

Ministre de l'environnement

Ministère de l'environnement

20 Avenue de Ségur

75732 Paris 07 SP

France

Tel: (33) (1) 42191745

Fax: (33) (1) 42191772

Chef de la délégation

Mme Odile Roussel

Conseiller technique du Ministre
de l'Environnement
Ministère de l'environnement
20 Avenue de Ségur
75732 Paris 07 SP
France

Tel: (33) (1) 42191042

Fax: (33) (1) 42191134

Suppléant du Chef de la délégation

M. Pierre Roussel

Directeur Adjoint de l'eau
Ministère de l'environnement
20 Avenue de Ségur
75732 Paris 07 SP
France

Tel: (33) (1) 42191202

Fax: (33) (1) 42191206

Chef de Délégation par intérim

M. Jean-Paul Rivaud

Chargé de Mission
Ministère des Affaires étrangères
37 Quai d'Orsay
75007 Paris
France

Tel: (33) (1) 43174413

Fax: (33) (1) 43175085

M. Jacques Blanc

Président de la Région Languedoc-Rousillon
Hôtel de Région
201, avenue de la Pompignane
34064 Montpellier Cedex 2
France

Tel: (33) 67 228000

Fax: (33) 67 229405

M. Serge Antoine

Ministère de l'environnement

M. Gilles David
Chargé de Mission

Ministère de l'environnement
20 Avenue de Ségur
75732 Paris 07 SP
France

Tel: (33) (1) 42191745
Fax: (33) (1) 42191772

M. E. Binet
Directeur Régional de l'environnement
Languedoc Roussillon
420 Avenue Henri II de Montmerency
34000 Montpellier
France

Tel: (33) 67154101
Fax: (33) 67154115

M. G. Moulinas
Directeur régional de l'environnement
(DIREN)
Provence Alpes-Côte d'azur
B.P. 120 Aix-en-Provence
France

Tel: (33) 42160350
Fax: (33) 42160373

M. Chirouze
Agence de l'eau Rhône-Méditerranée-Corse
France

Tel: (33) 72394848
Fax: (33) 72712601

M. Letourneux
Directeur du Conservatoire
de l'espace littoral et des rivages lacustres
36, Quai d'Austerlitz
75013 Paris
France

Tel: (33) (1) 44068900
Fax: (33) (1) 45836045

M. Bougeant

Conservatoire de l'espace littoral et
des rivages lacustres
Chargé de mission Méditerranée
36 Quai d'Austerlitz
75013 Paris
France

Tel: (33) (1) 44068900

Fax: (33) (1) 45836045

M. Pascal de Gerus

Ministère des Affaires Etrangères
37 Quai d'Orsay
75007 Paris
France

Tel: (33) (1) 43175137

Fax: (33) (1) 43175085

**GREECE
GRECE**

Mr Alexandros Lascaratos

MAP Liaison Officer
Department of Applied Physics
Laboratory of Meteorology and
Oceanography
33 Ippocratous Street
106 80 Athens
Greece

Tel: (30) (1) 3613504

Fax: (30) (1) 3608518

Tlx: 223815 UNIV GR

Head of delegation

Mr Constantinos Cartalis

Technical Advisor to the Deputy Minister
of the Environment, Physical Planning
and Public Works
Dept. of Applied Physics
University of Athens
33 Ippokratous Street
10680 Athens
Greece

Tel: (30) (1) 3636279, 6447493

Fax: (30) (1) 3605080, 6432589

Ms Anastasia Lazarou-Bakali

National Coordinator for MEDPOL

Head of Water Section

Ministry of the Environment, Physical Planning
and Public Works

147 Patisision Street

112 51 Athens

Greece

Tel: (30) (1) 8650106

Fax: (30) (1) 8647420

Mr Harry Coccossis

Scientific Advisor on Coastal

Management to the Deputy Minister of
the Environment, Physical Planning and

Public Works

University of the Aegean

17 Karantoni Street

81100 Mytilini

Greece

Tel: (30) (251) 21286, 6447495

Fax: (30) (251) 23783, 6447495

Ms Anneta Mantziafou

University of Athens

Department of Applied Physics

Laboratory of Meteorology and Oceanography

11 Tilemahou Street

114 72 Athens

Greece

Tel: (30) (1) 3613504

Fax: (30) (1) 3608518

**ISRAEL
ISRAEL**

Mr Dror Amir

Director
Division of International Relations
and Special Projects
Ministry of the Environment
P.O. Box 34033
5 Kanfei Nesharim Street
95464 Jerusalem
Israel

Tel: (972) (2) 6553850, 6553851

Fax: (972) (2) 6553853

Head of delegation

**ITALY
ITALIE**

Mr Ferruccio Marri-Caciotti

Head of Environment Office
Directorate General of Economic Affairs
Ministry of Foreign Affairs
1 Piazzale della Farnesina
00194 Rome
Italy

Tel: (39) (6) 3236352, 393253

Fax: (39) (6) 3222851

Tlx: 43-612409 MEENG I

Head of delegation

Mr Giovanni Guerrieri

ENEA Expert
Ministry of Environment
Department of Water, Waste, Soil
33 Via Ferratella in Laterano
00184 Rome
Italy

Tel: (39) (6) 70362219

Fax: (39) (6) 77257012

Eml: guerrieri@flashnet.it

Mr Francesco Valentini
Ispettorato Difesa Mare
Ministry of Environment
33 Via Ferratella in Laterano
00184 Rome
Italy

Tel: (39) (6) 70362219
Fax: (39) (6) 77257012

Mr Giovanni Moschetta
Presidency of the Council of
the Ministers

Via Giardino Theodoli
Rome
Italy

Tel: (39) (6) 6798741
Fax: (39) (6) 6790130

**LEBANON
LIBAN**

M. Tony Braïdy
Consulat Général du Liban à Marseille
424 rue Paradis
13008 Marseille
France

Tel: (33) (91) 715060

**MALTA
MALTA**

H.E. Mr Stanley Zammit
Parliamentary Secretary for the Environment
Ministry for the Environment
Floriana CMR 02
Malta

Tel: (356) 247538
Fax: (356) 243759

Head of delegation

Mr Lawrence Micallef

Chief Environment Officer
Ministry of the Environment
Starkey Annexe
Vittoriosa
Malta

Tel: (356) 678034, 676395
Fax: (356) 660108

Mr Anthony Borg

Counsellor
Ministry of Foreign Affairs
Palazzo Parisio
Merchants Street
Valletta
Malta

Tel: (356) 245731
Fax: (356) 237822
Tlx: 406-1497 MINFA MW
Cbl: EXTERNAL MALTA

Mr Louis Vella

Director
Environment Protection Dept.
Floriana
Malta

Tel: (356) 232022
Fax: (356) 241378

Mr Louis Cassar

Executive Coordinator
International Environment Institute
Old University Building
St. Paul Street
Valletta
Malta

Tel: (356) 240741/224067
Fax: (356) 230551

MONACO
MONACO

S.E. M. J. Pastorelli

Ministre Plénipotentiaire
Le Délégué permanent auprès
Organismes Internationaux
Ministère d'Etat - Relations extérieures
16, boulevard de Suisse
MC 98030 Monaco Cedex
Principauté de Monaco

Chef de la délégation

Tel: (377) 93303371

Fax: (377) 93302474

Mr Patrick Van Klaveren

Chef du service de l'environnement
Département des travaux publics et
Affaires Sociales

Mme Marie-Christine Van Klaveren

Chef Division Service Environnement

3 avenue de Fontvieille
MC-98000 Monaco
Principauté de Monaco

Tel: (377) 93158963

Fax: (377) 92052891

Eml: VanKlave@hermes.unice.fr

MOROCCO
MAROC

S.E. M. Nourdine Benomar Alami

Ministre de l'environnement
Ministère de l'environnement
36 avenue des Héros
Rabat
Maroc

Tel: (212) (7) 777697, 777668

Fax: (212) (7) 777256, 777697

Chef de la délégation

Mme Bani Layachi

Directeur de l'observation, des études et de la
coordination

Ministère de l'environnement

36 avenue des Héros

Rabat

Maroc

Tel: (212) (7) 772671

Fax: (212) (7) 777256, 777697

M. Tahar Tahry

Chef de Cabinet

Ministère de l'environnement

36 avenue des Héros

Rabat

Maroc

Tel: (212) (7) 770885

Fax: (212) (7) 777697

**SLOVENIA
SLOVENIE**

Mr Janez Kokol

Consultant of Government

Ministry for Environmental and Physical
Planning

1b Vojkova

1000 Ljubljana

Slovenia

Tel: (386) (61) 1784425

Fax: (386) (61) 1784612

Head of delegation

**SPAIN
ESPAGNE**

Ms Amparo Rambla

Subdirectora General Adj. Politicas della
Biosfera

Pº de la Castellana 67

Ministerio de Medio Ambiente

28071 Madrid

Spain

Tel: (34) (1) 5977585

Fax: (34) (1) 5978513

**TUNISIA
TUNISIE**

M. Touhami Hamrouni

Président Directeur Général
Agence Nationale de Protection de
l'environnement (ANPE)
Centre Urbain Nord Bâtiment I.C.F.
B.P. 52
2080 Ariana - Tunis
Tunisie

Tel: (216) (1) 704000

Fax: (216) (1) 708230

Chef de la delegation

M. Mohamed Adel Hentati

Directeur
Ministère de l'environnement et de
l'aménagement du territoire
Centre Urbain Nord - Bâtiment I.C.F
B.P 52
2080 Ariana - Tunis
Tunisie

Tel: (216) (1) 704000

Fax: (216) (1) 708230

Mme Amel Benzarti

Chargée de mission Cabinet du Ministre
Directeur Coopération Internationale
Ministère de l'environnement et de
l'aménagement du territoire
Centre Urbain Nord - Bâtiment I.C.F
B.P 52
2080 Ariana - Tunis
Tunisie

Tel: (216) (1) 702779

Fax: (216) (1) 702431

**TURKEY
TURQUIE**

Mr Murat Sungur Bursa

Deputy Undersecretary
Ministry of the Environment
Eskisehir Yolu 8 Km
06100 Ankara
Turkey

Tel: (90) (312) 2851607

Fax: (90) (312) 2853739

Head of delegation

Ms Nesrin Algan

Head
Foreign Relations Department
Ministry of Environment
Eskisehir Yolu 8 KM
06100 Ankara
Turkey

Tel: (90) (312) 2851705
Fax: (90) (312) 2853739
Eml: cbdi-d@servis.net.tr

Ms Gül^öen Kugu

Biologist
Foreign Relations Department
Ministry of Environment
Eskisehir Yolu 8 KM
06100 Ankara
Turkey

Tel: (90) (312) 2851705
Fax: (90) (312) 2853739
Eml: cbdi-d@servis.net.tr

**UNITED NATIONS BODIES AND SECRETARIAT UNITS
SECRETARIAT DES NATIONS UNIES**

UNITED NATIONS ENVIRONMENT
PROGRAMME (UNEP)
PROGRAMME DES NATIONS UNIES
POUR L'ENVIRONNEMENT (PNUE)

Ms Elizabeth Dowdeswell

Executive Director
United Nations Environment Programme
P.O Box 30552
Nairobi
Kenya

Tel: (254) (2) 623633
Fax: (254) (2) 622788/622798
Tlx: 25164 UNEPRS

Ms Terttu Melvasalo

Director
Water Branch
United Nations Environment Programme
P.O Box 30552
Nairobi
Kenya

Tel: (254) (2) 622034
Fax: (254) (2) 622788/622798
Tlx: 25164 UNEPRS
Eml: terttu.melvasalo@unep.no

UNITED NATIONS ENVIRONMENT
PROGRAMME/INDUSTRY AND
ENVIRONMENT
PROGRAMME DES NATIONS UNIES
POUR L'ENVIRONNEMENT/INDUSTRIE
ET ENVIRONNEMENT

Ms Jaqueline Aloisi de Lardere

Director
UNEP/Industry and Environment
Tour Mirabeau, 39-43
Quai André Citroën
75739 Paris
France

Tel: (33) (1) 44371450
Fax: (33) (1) 44371474

COORDINATING UNIT FOR THE
MEDITERRANEAN ACTION PLAN
UNITE DE COORDINATION DU PLAN
D'ACTION POUR LA MEDITERRANEE

Mr Lucien Chabason

Coordinator

Mr Ljubomir Jeftic

Deputy Coordinator

Mr Ibrahim Dharat

Senior Programme Officer

Mr Francesco-Saverio Civili

First Officer

Mr Adnan Aksel

Computer Operations Officer

Mr Christian Marx

Fund/Administrative Officer

Coordinating Unit for the Mediterranean
Action Plan

P.O. Box 18019

48 Vassileos Konstantinou Avenue

116 10 Athens

Greece

Tel: (30) (1) 7253190-5

Fax: (30) (1) 7253196-7

Tlx: 601-222564 - 222611 MEDU GR

Eml: unepmedu@compulink.gr

meduunep@compulink.gr

**REPRESENTATIVES OF UNITED NATIONS SPECIALIZED AGENCIES AND OTHER
INTERGOVERNMENTAL ORGANIZATIONS
REPRESENTANTS DES INSTITUTIONS SPECIALISEES DES NATIONS UNIES
ET AUTRES ORGANISATIONS INTERGOUVERNEMENTALES**

FOOD AND AGRICULTURE
ORGANIZATION OF THE UNITED
NATIONS (FAO)
ORGANISATION DES NATIONS UNIES
POUR L'ALIMENTATION ET
L'AGRICULTURE

Mr Gabriel P. Gabrielides

Senior Fishery Officer

FAO Project Office

Coordinating Unit for the Mediterranean
Action Plan

P.O. Box 18019

48 Vassileos Konstantinou Avenue

116 10 Athens

Greece

Tel: (30) (1) 7253190-5

Fax: (30) (1) 7253196-7

Tlx: 601-222564 - 222611 MEDU GR

Eml: faomedu@compulink.gr

WORLD HEALTH ORGANIZATION
(WHO)
ORGANISATION MONDIALE DE LA
SANTÉ (OMS)

Mr Bent Fenger

Acting Director
Environment and Health
World Health Organization
Regional Office for Europe
8 Scherfigsvej
DK-2100 Copenhagen
Denmark

Tel: (45) 39171717
Fax: (45) 39171818
Tlx: 12000
Eml: postmaster@who.dk

Mr George Kamizoulis

Senior Scientist
WHO/EURO Project Office
Coordinating Unit for the Mediterranean
Action Plan
P.O. Box 18019
48 Vassileos Konstantinou Avenue
116 10 Athens
Greece

Tel: (30) (1) 7253190-5
Fax: (30) (1) 7253196-7
Tlx: 601-222564 - 222611 MEDU GR
Eml: whomed@compulink.gr

INTERGOVERNMENTAL
OCEANOGRAPHIC COMMISSION OF
UNESCO (IOC)
COMMISSION OCEANOGRAPHIQUE
INTERGOUVERNEMENTALE DE
L'UNESCO (COI)

Mr Alexandros Boussoulengas

Environmental Consultant
IOC/UNESCO
7 place de Fontenoy
75700 Paris
France

Tel: (30) (1) 9954299
Fax: (30) (1) 9954299

WORLD METEOROLOGICAL
ORGANIZATION (WMO)
ORGANISATION METEOROLOGIQUE
MONDIALE (OMM)

Mr Alexander Soudine
Senior Scientific Officer
Environment Division
World Meteorological Organization
Research and Development Programme
41 avenue Giuseppe Motta
P.O. Box 2300
1211 Geneva 2
Switzerland

Tel: (41) (22) 7308420

Fax: (41) (22) 7400984

Tlx: 414199 OMM CH

INTERNATIONAL MARITIME
ORGANIZATION (IMO)
ORGANISATION MARITIME
INTERNATIONALE (OMI)

Mr Roger Jones
Director
Administration Division
International Maritime Organization
4 Albert Embankment
London SE1 7SR
United Kingdom

Tel: (441) (71) 7357611/5873133

Fax: (441) (71) 5873210

INTERNATIONAL ATOMIC ENERGY
AGENCY (IAEA-MEL)
AGENCE INTERNATIONALE DE
L'ENERGIE ATOMIQUE
(AIEA-LEMM)

Ms Milena Horvat
Head
Marine Environment Studies Laboratory
IAEA-MEL
19 avenue des Castellans
MC-98000 Monaco
Principauté de Monaco

Tel: (377) 92052222

Fax: (377) 92057744

Eml: horvat@unice.fr

ORGANIZATION OF AFRICAN UNITY
L'ORGANISATION DE L'UNITE
AFRICAINNE

Mr Desta Negousse
OAU Office
Counsellor
220 Route de Ferney
1218 Grand-Saconnex
Geneva
Switzerland

Tel: (41) (22) 7881660

Fax: (41) (22) 7881638

CONVENTION ON WETLANDS
(RAMSAR)
CONVENTION SUR LES ZONES
HUMIDES

Mr Delmar Blasco
RAMSAR Secretary General
Rue Mauverney 28
CH-1196 Gland
Switzerland

Tel: (41) (22) 9990170

Fax: (41) (22) 9990169

**REGIONAL ACTIVITY CENTRES OF THE MEDITERRANEAN ACTION PLAN
CENTRES D'ACTIVITES REGIONALES DU PLAN D'ACTION POUR LA
MEDITERRANEE**

UNEP/IMO REGIONAL MARINE
POLLUTION EMERGENCY
RESPONSE CENTRE FOR THE
MEDITERRANEAN SEA (REMPEC)
CENTRE REGIONAL MEDITERRANEEN
POUR L'INTERVENTION
D'URGENCE CONTRE LA
POLLUTION MARINE
ACCIDENTELLE

Mr Jean-Claude Sainlos
Director
Regional Marine Pollution Emergency
Response Centre for the Mediterranean
(REMPEC)
Manoel Island GZR 03
Malta

Tel: (35) (6) 337296-8

Fax: (35) (6) 339951

Tlx: 406-1464 UNROCC MW

Cbl: UNROCC MALTA

REGIONAL ACTIVITY CENTRE FOR
THE BLUE PLAN (BP/RAC)
CENTRE D'ACTIVITES REGIONALES
DU PLAN BLEU (CAR/PB)

Mr Michel Batisse

President

Mr Bernard Glass

Director

Mr Arab Hoballah

Deputy Director

Regional Activity Centre for the Blue Plan
Place Sophie Laffitte
Sophia Antipolis
06560 Valbonne
France

Tel: (33) 93653959 - 93654402

Fax: (33) 93653528

Tlx: 42-970005

REGIONAL ACTIVITY CENTRE FOR
THE PRIORITY ACTIONS
PROGRAMME (PAP/RAC)
CENTRE D'ACTIVITES REGIONALES
DU PROGRAMME D'ACTIONS
PRIORITAIRES (CAR/PAP)

Mr Ivica Trumbic

Acting Director

Regional Activity Centre for the Priority
Actions Programme

11 Kraj Sv. Ivana

P.O. Box 74

21000 Split

Croatia

Tel: (385) (21) 591171

Fax: (385) (21) 361677

Tlx: 62-26477 RH URBS

Eml: ivica.trumbic@ppa.tel.hr

REGIONAL ACTIVITY CENTRE FOR
SPECIALLY PROTECTED AREAS
(SPA/RAC)
CENTRE D'ACTIVITES REGIONALES
POUR LES AIRES SPECIALEMENT
PROTEGEES (CAR/ASP)

Mr Chadley Rais
Expert-Marine Biologist

Mr Marco Barbieri
Expert-Marine Biologist

Centre des Activités Régionales pour les
Aires Spécialement Protégées (CAR/ASP)
Boulevard de l'environnement
B.P. 337
1080 Tunis Cedex
Tunisie

Tel: (216) (1) 795760
Fax: (216) (1) 797349
Tlx: 409-15190 ANPE TN
Eml: racspa@Tunisia.EU.Net

REGIONAL ACTIVITY CENTRE FOR
ENVIRONMENT REMOTE SENSING
(ERS/RAC)
CENTRE D'ACTIVITES REGIONALES
POUR LA TELEDETECTION EN
MATIERE D'ENVIRONNEMENT
(CAR/TDE)

Mr Michele Raimondi
Managing Director
Regional Activity Centre for Environment
Remote Sensing
2 Via G. Giusti
90144 Palermo
Italy

Tel: (39) (91) 342368
Fax: (39) (91) 308512
Eml: ctmrac@mbox.vol.it

REGIONAL ACTIVITY CENTRE
FOR CLEANER PRODUCTION (CP/RAC)
CENTRE D'ACTIVITES REGIONALES
POUR UNE PRODUCTION
PROPRE (CAR/PP)

Mr Victor Macià
Director
Regional Activity Centre for Cleaner Production
Generalitat de Catalunya
Departament de Medi Ambiente
56 Travessera de Gràcia
08006 Barcelona
Spain

Tel: (34) (3) 4147090
Fax: (34) (3) 4144582

MAP SECRETARIAT FOR
100 MEDITERRANEAN
HISTORIC SITES
SECRETARIAT DU PAM
DE 100 SITES HISTORIQUES
MEDITERRANEENS

M. Daniel Drocourt

Coordonnateur

Mme Myriam Morel

Coordonnateur adjoint

"100 sites historiques méditerranéens"
du Plan d'Action pour la Méditerranée
Atelier du Patrimoine de la Ville de Marseille

10Ter Square Belsunce

13001 Marseille

France

Tel: (33) 91 907874

Fax: (33) 91 561461

**NON-GOVERNMENTAL ORGANIZATIONS
ORGANISATIONS NON GOUVERNEMENTALES**

AMIGOS DEL MEDITERRANEO

M. Renaud Dupol de la Grandeur

Maison de l'environnement
16 rue F. Fabre
Montpellier 34080
France

Tel: (33) 67016023

Fax: (33) 67016029

AMIGOS DE LA TIERRA
(FRIENDS OF THE EARTH
INTERNATIONAL)

Dr Humerto Da Cruz

President of the Advisory Council
of Friends of the Earth Spain
C/.San Bernardo, 24-3
28015 Madrid
Spain

Tel: (34) (91) 5230750

Fax: (34) (91) 5230914

Ms Marta Guerrero

MEDNET Coordinator
C/.San Bernardo, 24-3
28015 Madrid
Spain

Tel: (34) (91) 5230750

Fax: (34) (91) 5230914

ARAB OFFICE FOR YOUTH AND
ENVIRONMENT (AOYE)

Mr Emad Adly

President

Ms Ahmadein Ghada

Programme Officer

P.O. Box 2
Magles El Shaab
Cairo
Egypt

Tel: (20) (2) 3041634

Fax: (20) (2) 3041635

ASSOCIATION OF CHAMBERS OF
COMMERCE OF THE MEDITERRANEAN
(ASCAME)

Ms Maria De Balle

Secretary of the ASCAME Environment
Commission
Cambra Oficial de Comerç, Indústria i
Navegació de Barcelona
Av. Diagonal, 452
08006 Barcelona
Spain

Tel: (34) (3) 4169300

Fax: (34) (3) 4169301

ASSOCIATION DE PROTECTION DE
LA NATURE ET DE
L'ENVIRONNEMENT DE KAIROUAN
(APNEK)

Mr Youssef Nouri

President Fondateur et chargé
des relations
Association pour la Protection de
la Nature et de l'Environnement de Kairouan
Lycée Abou Sofiène
Ksan Said II
2009 Tunis
Tunisia

Tel: (216) (1) 515307

Fax: (216) (1) 508361

Ms Rafika Blili

Association pour la Protection de
la Nature et de l'Environnement de Kairouan
22 Rue Irak
Appt. No. 15, 2è étage
La Fayette
Tunis
Tunisia

Tel: (216) (1) 700183

CENTRE DES REGIONS
EUROMEDITERRANEENNES POUR
L'ENVIRONNEMENT (C.R.E.E.)

Mme Christina Daoussi

Directrice Générale du CREE
Région Attique
Thèras 60 Street
11252 Athènes
Grèce

Tel: (30) (1) 8650194

Fax: (30) (1) 8648202

M. Laurent Pradalié

Région Languedoc-Roussillon
201 avenue de la Pompignane
34064 Montpellier
France

Tel: (33) 67228124

Fax: (33) 67229405

Mr Stavros Kambelis

General Secretary of the Region
of Crete
50 Koundourioti Street
71202 Iraklion
Crete
Greece

Tel: (30) (81) 246333

Fax: (30) (81) 222506

Ms Sandra Lauret

Centre des Régions Euroméditerranéennes
pour l'Environnement
202 Av. Pompignane
34064 Montpellier
France

Tel: (33) 67204863

ECOMEDITERRANIA

Mr Rafael Madueno

President EcoMediterrania

Mr Josep Germain

Ecomediterrania/Med Forum Network
Technical Adviser

Gran Via de les Corts Catalanes, 643
08010 Barcelona
Spain

Tel: (34) (3) 4125599

Fax: (34) (3) 4124622

EUROPEAN CHEMICAL INDUSTRY
COUNCIL (CEFIC)

Mr Jacques Verdier

Public Affairs
Euro Clor
European Chemical Industry Council (CEFIC)
c/o Elf Atochem
Cours Michelet la Defense 10
92091 Paris le Defense
France

Tel: (33) (1) 49008655

Fax: (33) (1) 49008868

EUROPE CONSERVATION

Mr Laurent Olivry

Europe Conservation
Chargé d'étude
B.P. 44
41260 La Chaussée Saint Victor
France

Tel: (33) 54551616

Fax: (33) 54551619

EUROCOAST

Mr R.E. Quélenec

Président EUROCOAST France
Site "Marépolis"
Bd. Toussaint Merle-B.P. 30
F-83501 La Seyne-sur-Mer, Cédex 1
France

Tel: (33) (94) 303001

Fax: (33) (94) 300333

Eml: carmel@Dialup.FranceNet.fr

FORET MEDITERRANEE

Mme Denise Afxantidis

Forêt Méditerranéenne

M. Jean Bonnier

Forêt Méditerranéenne

14 rue Louis Astouin
13002 Marseille
France

Tel: (33) (91) 560691

Fax: (33) (91) 919397

GREENPEACE INTERNATIONAL

Ms Domitilla Senni

Political Advisor
Toxic Campaign
Greenpeace International
V.le Mario Gelsomini
28-00153 Rome
Italy

Tel: (39) (6) 5750053

Fax: (34) (6) 5783531

Ms Hannoun Guizani

International Relations Officer
Greenpeace Mediterranean Office
33 Piazza Antoine de Paule
Paola Pla 05
Malta

Tel: (356) 803463

Fax: (356) 803485

INSTITUT MEDITERRANEEN DE L'EAU
(I.M.E.)

M. Louis Potié

Délégué général
Palais du Pharo
58 Bd Charles Livon
13007 Marseille
France

Tel: (33) 91593841

Fax: (33) 91593890

M. Michel Soulié

Délégué adjoint
Institut Méditerranéen de l'Eau (I.M.E)
859 rue J.F. Breton
Gritt Verseau
34090 cedex 5
Montpellier
France

Tel: (33) 67610400

Fax: (33) 67522829

Ms Marie-Anne Biagioni

Chargé de mission

Institut Méditerranéen de l'Eau (I.M.E.)

Palais du Pharo

Bd. Chalres Livon

13000 Marseille

France

Tel: (33) 91593841

Fax: (33) 91593890

INSTITUTO UNIVERSITARIO DE
CIENCIAS AMBIENTALES (SDA/ELS)

Ms Elena Peribanez Blasco

Officer

c/ Manuel Bartolomé Cossio s/n

Madrid 28040

Spain

Tel & Fax:

(34) (1) 5491459

Eml: ealonso@harvard.edu

MEDCITIES

Mr Jean Parpal

Planning Director

Mancomunidad de Munipius Area

Metropolitana Barcelona

Barcelona 8009

Spain

Tel: (34) (3) 2234169

M. Mohamed Boussraoui

Réseau MEDCITIES

Responsable department dossier Méditerranée

22, Rue d' Alsace

Levallois Perret 92300

France

Tel: (33) 47393686

Fax: (33) 42703799

MEDCOAST

Mr Erdal Ozhan

Middle East Technical University

06531 Ankara

Turkey

Tel: (90) (312) 2105429

Fax: (9) (312) 2101412

MEDIAS-FRANCE

M. Michel Hoepffner
Directeur de Recherche
MEDIAS-FRANCE CNES
18 Avenue E. Belin
Toulouse 31055
France

Tel: (33) 61274215
Fax: (33) 61282909
Eml: hoepffner@medias.est.cnes.fr

MEDMARAVIS

Mr John Walmsley
Project Coordinator
La Bergérie Mas De Petit Badon
13129 Salin de Giroud
Camargue
France

Tel & Fax:
(33) 42868623

MEDITERRANEAN PROTECTED AREAS
NETWORK (MEDPAN)
RESEAU DES ESPACES PROTEGES
MEDITERRANEENS (MEDPAN)

Ms Olivia Delanoë
Parc National de Port-Cros
IARE- Parc Scientific Acropolis
Rue Sainte-Claire
34397 Montpellier Cedex 5
France

Tel: (33) 67636500
Fax: (33) 67630366
Eml: iare@iare.mnet.fr

MEDITERRANEAN INFORMATION
OFFICE FOR ENVIRONMENT,
CULTURE AND SUSTAINABLE
DEVELOPMENT (MIO/ECSDE)

Mr Michael Scoullas
Chairman
MIO-ECSDE
28 Tripodon Street
105 58 Athens
Greece

Tel: (30)(1) 3225245, 3226693
Fax: (30)(1) 3225240

Mr Vangelis Constantianos

MIO-ECSDE
28 Tripodon Street
105 58 Athens
Greece

Tel: (30)(1) 3225245, 3226693

Fax: (30)(1) 3225240

Mr Abbas Zahreddine

President and Director of
L.I.N.E. - Liban Nature Environnement
B.P. 114-5144 UNESCO
Beyrouth
Lebanon

Tel: (961) (3) 232245

Fax: (961) (1) 603328

STATION BIOLOGIQUE DE LA
TOUR DU VALAT

M. Jean Paul Taris

Directeur Général
Station Biologique de la
Tour du Valat
Le Sambuc
13200 Arles
France

Tel: (33) (90) 972013

Fax: (33) (90) 972019

Eml:taris@gilleva.fr

Mr Jamie Skinner

Conservation Director
Station Biologique de la
Tour du Valat
Le Sambuc
13200 Arles
France

Tel: (33) (90) 972013

Fax: (33) (90) 972019

SUSTAINABILITY CHALLENGE
FOUNDATION

Ms Dagmar Freudenstein
Assistant to the Director
P.O. Box 11627
The Hague 25052 AP
The Netherlands

Tel: (31) (70) 3394722
Fax: (31) (70) 3391308

WORLD WIDE FUND FOR NATURE
(WWF)

Mr Aldo Jacomelli
WWF International
Mediterranean Programme
c/o WWF Italia
Via Garigliano 57
00198 Rome
Italy

Tel: (39) (6) 84497359
Fax: (39) (6) 8413866

Ms Domitilla Senni
WWF International
Mediterranean Programme
c/o WWF Italia
Via Garigliano 57
00198 Rome
Italy

Tel: (39) (6) 84497359
Fax: (39) (6) 8413866

ANNEX II

STATEMENT OF HER EXCELLENCY
MADAME CORINNE LEPAGE
FRENCH MINISTER FOR THE ENVIRONMENT

Mr President
Dear Colleagues
Ladies and Gentlemen,

It is a great honour and pleasure for me to welcome you to my country for this Extraordinary Meeting of the Contracting Parties to the Barcelona Convention. A convention which was signed in 1975 and amended and reinforced twenty years later in the same city of Barcelona which is so close to where we are today.

It is also a great pleasure for me to welcome you in this region of Languedoc - Roussillon, the President of which, Jacques Blanc, very spontaneously and cordially accepted a year ago your presence to convene in Montpellier the representatives off the Coastal States, the European Union, the NGOs and the United Nations family.

Last year in Barcelona, we expressed the wish not to prejudge the decisions on the structures and modalities of future Mediterranean cooperation and took the decision to hold an extraordinary meeting here, at Montpellier.

This meeting must adopt the budget for the year 1997, i.e. the first budget of MAP II; however our meeting encompasses a lot more than the budget. We must safeguard our ambitions for the Mediterranean; we must take the long view toward the year 2025 and even 2050 and reflect upon the various components of sustainable development that make up a whole. This approach is fundamental and we must thank all the actors involved in it. I am referring both to the work accomplished within the framework of the Blue Plan and to the work carried out by Tunisia through MED 21 actions which today must constitute our main source of inspiration.

However, we know and the Coordinator, Lucien Chabason, knows it better than anyone that with the means at our disposal we must target the activities which we can concretely carry out within this multilateral framework.

We must make choices and, as you know, the adoption of the Budget is the time to define priorities, especially when money becomes scarcer everywhere, in the countries of the Southern rim, as well as in those of the Northern rim of the Mediterranean.

I believe that I must stress the orientations proposed for MAP II and the priorities confirmed in the budget which will be adopted; here they are:

- A review of the programmes involving the marine environment: they continue to be among the priorities but for the past 20 years they have benefited from the attention paid both to these problems and to the laboratories. It should be possible with the same results, to allocate funds to new priorities.
- The priorities decided upon in Barcelona in respect of coastal protection, mainly through legislative and regulatory measures and also through the control of urban and rural development policies.
- Biodiversity: The Tunis centre has so far dealt exclusively with protected areas, but it should be possible to enlarge its geographical scope to include especially the protection of endangered as well as migratory species.
- Sustainable development: Here, as a direct result of the Rio decisions, attention should be focussed on the general strategies, especially those that have been either dealt with separately or even ignored. I am thinking of the water, soil and air which were not included in MAP II and which should be taken on board not each one for its own sake, but in conjunction with human activities both upstream and downstream.
- A more intensive educational action is required, so that the social society decide to make different use of installations and infrastructures and manage in a more rational way the services and spaces available. The component of education is for us essential, especially, vis-à-vis local authorities and youth.

The setting up of the Mediterranean Commission on Sustainable Development is very timely and will guide our actions. It will be successful provided that:

- It is given the space it needs to operate in conjunction with the National Commission on Sustainable Development; and
- That the choice we make of the persons to sit on it is directed toward well respected individuals whose special talent will be to link economics, environmental protection and physical development.

I am delighted that the first meeting of the Commission will take place in Fez in a country of the Southern Coast and would like to express my warmest thanks to the Moroccan authorities for offering to host it. In order to implement the principle of rotation between the South and the North, the East and the West of the Mediterranean, which we have always wished to see applied, my country will, when the time comes, be ready to organise a meeting of the MCSD. I am delighted to announce here the candidacy of the city of Marseille for a date to be agreed upon, given that exceptionally for 1997 and to launch the process, two meetings seem appropriate.

The setting up of the Mediterranean Commission on Sustainable Development is an essential act and I am delighted that its terms of reference, its mandates, its objectives, working methods and its composition will be adopted in my country. We approved the main axes proposed for the MCSD.

The financial burden is borne by the states through our contributions; thus, despite budgets that at best are slightly on the increase, we must examine how we can adhere to other decisions taken by the United Nations on staff salaries. I am in a position to announce that the Ministry of Foreign Affairs and my Department will do their best, so that most of the recommendations proposed by the Coordinating Unit can be implemented.

However, I would like to state that our request for many years, to have our actions funded also through contributions other than those of the coastal states, is starting to be heeded. European Union credits are beginning to be mobilised, especially through DG 11, I could not be more pleased, but at the same time hope that other Commission DGs will follow suit and that the MEDA Programme adopted in Barcelona in November 1995 can soon be launched to encompass bilateral, as well as multilateral actions.

It is also with satisfaction that I note the support of financial institutions, such as the World Bank, the European Investment Bank, the Fund for the World Environment and CEDARE in respect of the protection of the Mediterranean; I hope that they will all, including UNDP, work very closely with MAP.

However, we shouldn't expect everything from the states. It is a bad practice to think of them alone and the state as a provider can no longer take care of everything, even international action of a multilateral nature.

Partnerships with the civil society are essential: NGOs, businesses, universities, local authorities are all actors on whom we can count, provided we enhance their cooperation through Mediterranean "networks". In the past ten years some networks have been put in place. We can and must encourage them. I'd like to mention a few of them.

- MEDWET for those responsible for wetlands, areas of great wealth for biodiversity.
- MEDCITIES which took over the idea of the Union of the Mediterranean cities, supported by the World Bank 3 or 4 years ago, and which could reinforce its activities on the basis of the decisions taken during the Cities Summit Conference in Istanbul. As far as we are concerned we commit ourselves to support it.

I am also thinking of other networks which can share their experiences with us; I am thinking for instance of the network "Healthy Cities" which encompasses large cities which within the framework of public health are carrying out programmes of measuring pollutants and epidemiological analysis.

There is another example which we should follow in conjunction with the Tunis Centre. The initiative in this connection consisted in linking together the MAN (man and biosphere) pilot areas which work in the region on sensitive areas on the connection between historic, ecological and cultural environment on the one hand and development on the other.

Finally, I am thinking of the political institutions that aim at coastal protection and you are aware, I am certain, of the personal encouragement I have shown for the international activities of the coastal conservatory.

French networks represents a living focus in the Mediterranean, a forum for exchange of expression and practices, they facilitate the circulation of ideas and people. I would like to propose to you the following idea; to set up a system for the exchange and training of local authorities officials from all Mediterranean countries. Over 5 years, more than a thousand officials could spend a few months in a country other than their own to learn the ways in which things are done there. I propose that we submit this project to the association of cities and that it be included in the agenda of the First Meeting of the Mediterranean Commission on Sustainable Development.

I would like to emphasise the important role played by the Blue Plan in the reflection about Sustainable Development in the Mediterranean. Indeed, this MAP Centre, which aims at exploring the connections between population, resources, environment and development, has focussed on the scope of on-going developments in the Mediterranean coastal areas and outlined the possible ways for sustainable development. It is with great interest that I note that for almost three years now it is also carrying out, with the support of the Commission of the European Union, observation and assessment of the various facets of the state of the environment and of action taken.

How shall we be in a position, in thirty years time, through intensification of agricultural production, to meet the needs in food of almost 600 million people in the Mediterranean countries. How will we secure a satisfactory quality of life for an additional 200 million people that will live in our cities? How can we generate each year a quality welcome for the almost 300 million international tourists? How can we foresee and meet such great challenges without reliable data and pertinent indicators which would allow us to follow and assess the state of vital resources such as water, soil and the coastal areas in conjunction with the needs, including transport and energy?

I am delighted that MAP, within the Blue Plan, has now as a permanent structure, a Mediterranean Observatory for Environment and Development which operates in a network of national observatories or equivalent institutions of the coastal states and in partnership with the relevant international/regional bodies. It is in this line of thinking that the French authorities, thanks to the support of the Département des Alpes Maritimes, will, beginning this year, provide the Blue Plan and its observatory with the first class premises in Sophia Antipolis.

A link between national actions and common (Mediterranean) action is a must. I concur with the idea to focus each year, as is done for instance by OECD, on one or two countries and to evaluate the effort deployed for environmental protection and sustainable development.

Highlighting national actions teaches us a great deal. I hope that actions completed, on-going or launched in the Mediterranean Basin can be highlighted and better known. I am afraid that MAP is not doing as much as it should in this connection.

I had drawn up such a report for the state of the environment for the region in which we now are and also more generally for the three Mediterranean regions. I will briefly touch upon our policy for the preservation of the Mediterranean coast and the protection of the species:

1. In twenty years the Coastal Conservatory acquires 26053 ha. The procedure for the acquisition of another 11000 ha is ongoing. In the longer term 15000 ha should be added which would correspond in percentage of coast acquired, in 1996 by region to:
 - Provence - Alpes - Côtes d'Azur (PACA): 9.8%
 - Languedoc - Roussillon: 10.7%
 - Corsica: 15.3%

or for the whole of the French Mediterranean coast to approximately 12.5%. If the programme adopted for the next 50 years is implemented, this percentage will reach 21%.

2. In respect of the protection of spaces, a lot of work has also been accomplished in Provence - Alpes - Côtes d'Azur since 1976 with the setting up, in the Provence - Alpes - Côtes d'Azur (PACA) region, of the National Park of Mercantour, the regional nature Parks of Queyras and Luberon and finally the 3 nature reserves. In the Languedoc - Rosalène region, 15853 ha were set aside as 11 nature reserves and finally in Corsica, 4 nature reserves were set up covering a total of 7001 ha.

France attaches a great importance to the Mediterranean region and wants it to be an area of peace, exchanges and solidarity as it has been many times before. We know that we owe to the Mediterranean: we are also aware of the burden of our responsibility with about 40% of the GNP of the 20 Mediterranean states. This is why we insist (and have never failed in this) in paying our financial contribution to MAP with no hesitation or delay. This is why we have resolutely committed ourselves to MAP II.

With the agreement of the Mediterranean states (expressed last November in Barcelona by their Foreign Affairs Ministers) we are ready to forge a large Euro-Mediterranean space, a space for free exchanges, but also - and here MAP's example is very pertinent, a space of solidarity to develop global strategies; finally a space of cultural diversity which, as historian Fernand Braudel has pointed out, is part and parcel of the wealth of our common heritage.

We will do our best to promote this Euro-Mediterranean space. In Barcelona, the President of the Republic proposed that from now on and at regular intervals the Mediterranean meetings be convened at the level of Heads of State and Government. In his address to the University of Cairo in April 1996 he advocated a Euro-Mediterranean space for water resources and proposed that a Euro-Mediterranean Conference on water resources management be convened, further that a water resources map be drawn up and finally that an International Institute for Water Resources and development be set up.

We owe it to ourselves to put this space that we share in the centre of our concerns for the century upon which we are embarking, a century which will be not only centred around our planet, but also - we are convinced - around the Mediterranean.

STATEMENT OF HIS EXCELLENCY
MR NOURDINE BENOMAR ALAMI
MOROCCAN MINISTER FOR THE ENVIRONMENT

Mr President
Dear Colleagues
Ladies and Gentlemen,

It is an honour and a pleasure for me to be among you one more time to assist in carrying forward the work of this Extraordinary Meeting. I take the occasion in order to express my personal thanks as well as those of the Moroccan delegation to the French authorities at national and regional levels and especially Madame Corinne Le Page, French Minister for the Environment and Mr Jacques Blanc, President of the Region of Languedoc - Rousillon for their warm welcome and congratulate them for the outstanding level of organisation of the meeting. This will no doubt help us to accomplish our task.

I would like to express my thanks to Mrs Elizabeth Dowdeswell, UNEP's Executive Director, for her participation in our important meeting and assure her that we expect a lot from UNEP in order to achieve the objectives defined during the Ninth Ordinary Meeting of the Contracting Parties in June 1995 in Barcelona. Thus, we ask UNEP to lend a sympathetic ear and strengthen its support, so that this programme remains exemplary within the framework of the Regional Seas Programme.

This Extraordinary Meeting was decided, as you know, in Barcelona and comes at a very appropriate time. It aims at allowing the Parties to adopt decisions on certain important matters, i.e. the increase of the contributions of the Parties to the Mediterranean Trust Fund and the allocation of the budget by chapter. It is true that MAP for some time now has faced fewer difficulties, given the fact that Italy paid its arrears this year. However, it is obvious that the implementation of the second phase of MAP and its refocussing on concrete actions will require an extra effort - financially speaking - from each one of us. The second, equally important, matter that will be discussed is the allocation of the budget to the various programmes and according to the new priorities under each chapter within the framework of MAP - Phase II.

The third point will be the Terms of Reference of the Mediterranean Commission on Sustainable Development, its composition, its role and the links it will develop with the other institutions under MAP. Indeed, at the Focal Points Meeting, some questions remained pending and our meeting is requested to take the appropriate decisions. I should note that in this connection that the next meeting is scheduled for December in Fez.

Finally, as is usual, we will review the state of progress of the work carried out by the Coordinating Unit between the two Ordinary Meetings of the Contracting Parties.

Ladies and Gentlemen, the year gone by was rich in important events for our region. The Euro-Mediterranean Conference, held in Barcelona at the end of November opened the perspective for cooperation during countries in the environmental sector. We are requested therefore to reflect together on the orientations and methods for the best use of these resources to further the programmes and objectives defined by the Contracting Parties.

Before concluding, I would like yet again on your behalf to express my thanks to the organisers who spared no effort for the success of our meeting.

STATEMENT BY
MR JACQUES BLANC, EX-MINISTER
PRESIDENT OF THE LANGUEDOC-ROUSILLON REGION

Your Excellencies,
Madame Minister
Madame Under-Secretary General
Ladies and Gentlemen

The whole Languedoc - Rousillon region has the honour of hosting, for four days, the Extraordinary Meeting of the Contracting Parties to the Convention for the Protection of the Mediterranean Sea against pollution.

As President of the Languedoc - Rousillon Region, first President of the Committee of the Regions of the European Union and currently its first Vice-President, Founding President of the Centre of the Euro-Mediterranean Regions for the Environment, I want to convey to you the message of the Regions, which while respecting the sovereign rights of the states, propose to you to become partners in the action that you envisage: we share your objectives and depending on the particular country we are involved directly or indirectly in environmental action. That is why, at this very moment I am pleased and proud of this meeting which is highly symbolic of the collective will to set up and develop a framework for action for the implementation of fruitful cooperation throughout the Mediterranean Basin on all environmentally related matters.

Three hundred and eighty million people, of whom two hundred and twenty on the Southern and Eastern coasts, one-seventh of world trade, 6000 years of history which can be seen everywhere: we are fully cognisant of the fact that in this part of the world which is the link among three continents, the problems are such that they require strong solidarity. We also know that the Mediterranean can not afford to be left out of the mainstream of world events, while the international community has for the past almost ten years gone through serious upheavals. For me, a convinced European and a Mediterranean by birth, this is a crucial question and that is why this meeting is of such special importance. Firstly, because as a follow-up to the resolutions of the 1992 Rio Conference you are expressing the will to put the Mediterranean at the forefront of a policy of environmental protection, twenty one years after the signing of the Barcelona Convention, under the auspices of the United Nations Environment Programme the Mediterranean is a prime example for the whole world of a region which wants to set up the first Commission on Sustainable Development in the spirit of the Rio Summit. In the forefront in 1975, as innovators with the concrete development is the short term of a policy of Sustainable Development, we Mediterraneans can today be rightly proud of our mobilisation in the field of environmental protection.

In my view, this Extraordinary Meeting of the Mediterranean Action Plan is a major event also for the fact that networks of local authorities have been granted observer status, along with the NGOs within the framework of our Conference.

Thus, by integrating your action in the general trend of Sustainable Development and taking into consideration the social, economic and environmental realities globally in order then to intervene at local level, I am convinced that the Mediterranean can fully confront the challenges that it has come up against. However, we must recognise the fact that the Mediterranean is not always taken seriously: 40% of the Europeans prefer it as their holiday destination, so that sun, sand and sea have become a leit-motiv at the back of the minds of a lot of people living in the North of Europe.

The sea is also referred to as a vehicle for history. And yet this sea is very fragile. This is the first challenge and it is for this very fragile sea that for the past 21 years and within the framework of the Mediterranean Action Plan, remarkable work has been accomplished. It is thanks to this continuous cooperation among the countries of the region that MAP has been able to bring about significant results that augur well for the future.

You have shown that the degradation of the Mediterranean can be stopped, even reversed, thank to a collective will.

Obviously, there are often challenges, the message of states must not only involve the sea but the physical planning of their respective territories. We know only too well, the impact that the neglect of the hinterland can have on the marine environment. In this connection, the problems of the Mediterranean Basin are of such scope that they require strong solidarity. The dimensions of the problems and challenges are such that the Mediterranean region, will, in the next thirty years, move to a totally different scale. First in terms of population: 350 million in 1985, 450 million projected for the year 2000 - in 4 years? time! and almost 500 million in 2025, or more than the combined populations of the US and the ex-Soviet Union.

Well, the North of the Mediterranean which in 1950 represented two thirds of the population, was only half in 1985. In 2025 it will only be one third of the total population. The gap between the ageing Northern rim and the young Southern rim will widen. 45% of the people living in the South are less than 15, as against 25% in the North.

As far as the resources and the quality of life are concerned, a gap could occur between the North and the South if a strong political will does not manifest itself. This is the reason for taking and creating all the opportunities to weave between the North and the South a network of connections. The Mediterranean does not have to do it in a rigid, institutional framework. It will benefit the most if it sets up, as it has done for centuries, dynamic networks for exchanges and cooperation. In this connection I want simply to express my deep conviction: that the Mediterranean could launch original forms of inter-regional and cross-border cooperation as bridges for the future and invent its own model of development that the North could not impose on it.

It is in this spirit that 25 Mediterranean regions of Spain, France, Greece, Italy and Portugal, which are familiar with local conditions and the aspirations of their people, decided in 1995 to form the Euro-Mediterranean Regions Centre for the Environment (CREE).

The Mediterranean Action Plan is 21 years old. The Euro-Mediterranean Regions' Centre for the Environment almost one. Therefore, it is fitting for me to speak about it humbly but enthusiastically with the conviction that I have felt ever since this initiative was launched by the Languedoc - Roussillon region, on the occasion of the 6th Inter-Mediterranean Commission of the CRPM.

CREE, of which I have known to be the first President, was first conceived as a joint network of Mediterranean regions, for the exchanges of scientific, legal and technical information, for sharing experiences in environmental protection and for implementing common actions. CREE I also a fool for mapping out the main axes of a Euro-Mediterranean Environmental Policy.

Our ambition is thus clear: we want to make of the Euro-Mediterranean Regions' Centre for the Environment an interlocutor on an equal footing of the states, the European Union and the international bodies, especially the Mediterranean Action Plan.

In Barcelona, in June 1995 at the 1st General Assembly of CREE, the founding regions confirmed, on the basis of the subsidiarity principle, their will to participate in the development of environmental policy which would be compatible with Sustainable Development. Complementarity and coherence between CREE and MAP augur well for the future.

In repeating my welcome to all delegations representing the 21 states participating in this Extraordinary Meeting, I would like to turn to you, Your Excellency as President of the Bureau of MAP (Mr Nousedine Benomar Alami, Minister for the Environment of Morocco) and to you, Madam, Undersecretary General, UNEP's Executive Director (Mrs Elizabeth Dowdeswell) and express my heartfelt thanks for agreeing to let the Mediterranean regions associate themselves to your work. Please rest assured that the latter are ready to act concretely for the protection of our Mediterranean environment.

For its part, Languedoc - Roussillon has decided to integrate the Mediterranean dimension into its development strategy. Our region intends to be a strong link between the Southern European regions on the one hand and the Mediterranean non-European regions on the other.

To bring this about, ie. To accede to the status of "Mediterranean Partner" we have launched several initiatives which would form the bridges toward a global project for the 3rd millennium as follows:

- initiatives in the field of high technologies and their use in agronomy and agro-industry to secure future jobs;
- initiatives in the field of sports to secure individual accomplishment and strong links among different peoples as illustrated by the Mediterranean Games of June 1993;

- initiatives in the field of the protection of physical heritage to secure good management of the land such as the exhibition "Mediterranean Landscape" shown in Seville in 1992.

Beyond the apparent heterogeneity of this Mediterranean that Fernand Braudel called "a complex of seas", we all realise that the Mediterranean unity comes forth through 18 landscapes and history and that a truly common fate brings together the 21 coastal states.

In welcoming you all to this Hôtel de Région, I would like you to know that I am very proud to see the Languedoc - Rousillon contribute to the attainment of this noble pursuit.

STATEMENT BY
MS ELIZABETH DOWDESWELL
EXECUTIVE DIRECTOR OF UNEP

Mr President of the Bureau,
Madame Minister,
Mr President,
Delegates and Observers,
Ladies and Gentlemen,

It is very great pleasure to welcome you all to this Extraordinary Meeting of the Contracting Parties to the Barcelona Convention.

First, may I extend my thanks to the French Government, particularly to Mrs. Corinne Lepage, Minister for the Environment for the remarkable job done in preparing for this Meeting. Our gratitude extends to the Region of Languedoc Roussillon and its President, Jacques Blanc, for the warmth and generosity of their welcome.

Let me also take this opportunity to welcome the ministers and delegations from the Member States and the European Commission to this meeting. I am also pleased by the presence of so many NGOs as well as the UN Specialized Agencies.

There could be no better place to hold this Meeting. As I flew in yesterday, I had the opportunity to admire the majestic beauty of the Languedoc marshes. I am aware of the tremendous efforts that have been set in motion to preserve this exceptional natural heritage.

The majestic backdrop for this meeting, I am sure will contribute to the effectiveness of our work.

When the global community forged its commitments at UNCED almost 5 years ago, it was with the knowledge that the job of improving the environment would not be easy. As we began translating our plans into action, we have indeed discovered the complexity and difficulty of implementing Agenda 21.

These post-Rio reflections are inevitable and should help us test long-held assumptions and renew our energies. There are signs that a new understanding is emerging of the implications of sustainability and the post-Rio agenda.

Notwithstanding more than 20 years of concerted efforts by UNEP and other agencies, the battle for an improved human environment is still under way and far from being won. The long-time frames associated with the healing of the ozone layer, even though the growth rates of CFCs have come down; The excessive swings in the world's climate patterns with their potential of increasing global warming leading to sea-level rise; The scarcity of good quality water affecting 1.3 billion people in developing countries; Threats to biological diversity with an increasing illegal trade in wildlife estimated in the

region of \$2-3 billion annually. Continuing diminishment of land productivity due to top-soil loss, water logging and salinization; Increased globalization of trade with yet unascertained implications on the environment.

UNEP has squarely confronted the reality that policies and programmes for sustainability must now contend with growing complexity and rapid technological change.

At the 18th session of UNEP's Governing Council in May 1995, some far-reaching decisions were taken to chart a course for UNEP that would maximize its potential to deal with these problems.

There was an endorsement for the strengthening of UNEP as the authoritative voice for environment within the United Nations system. The Governing Council underlined the high priority to be given not only to assessing and addressing emerging critical issues in the field of environment, promoting international environmental cooperation, but also monitoring the status of the environment. It also supported the role of UNEP in furthering the development of international law and environmental economic instruments.

Most importantly, the Governing Council endorsed the adoption of an integrated approach to programme formulation and implementation in UNEP.

The integrated approach focuses on four major environmental themes: sustainable use and management of natural resources, sustainable production and consumption, a better environment for human health and well-being, and, globalization and the environment. As well, it provides a framework for integrating and addressing the results and recommendations of major UN conferences and events in the social and economic fields, such as the Population conference, the Social Summit, the Beijing Women's Conference and Habitat II.

As a result, the thematic content of our programme has shifted from its earlier sectoral accent to one that emphasizes relationships between socio-economic driving forces, environmental changes and impacts on human well-being. Particular care has been taken to make the programme more responsive to emerging issues not yet well recognized or understood. I refer in particular to the interaction of human systems and ecosystems, consumption patterns, land-based sources of pollution and the problems of small island States. It will also focus on emerging regional and sub-regional concern such as the management of shared natural resources, particularly water. The implementation of this programme will be undertaken by harnessing expertise and experience residing in national, regional and global organizations.

I refer to this audience the example of one programme element - caring for freshwater, coastal and marine resources-under the overarching theme of "Sustainable Management and use of Natural Resources". An estimated one-third of the world's population will suffer from chronic water shortage by the year 2025. The increasing water scarcity, combined with its deteriorating quality will have far-reaching impacts on human-health, socio-economic development potential of affected countries, fresh water and marine resources, and biodiversity, and may even cause conflicts over water rights.

The integrated programme that has been developed to deal with this issue will promote global freshwater assessment and development tools and guidelines for sustainable management and use of freshwater and coastal resources with special reference to Caribbean and South Pacific small island States and in selected megacities of Latin America, Asia and Africa. It will promote international cooperation in the management of river basins and coastal areas with focus on land-based activities and the special needs of small island developing States. Based on cross-sectoral assessments, it will promote the development of regional agreements and action plans for integrated management of river basins and associated coastal zones or lakes. This programme is the cooperative endeavour of experts belonging to the fields of international environmental law, biodiversity, scientific assessment, marine and freshwater resources and land degradation.

UNEP's integrated programme for the biennium 1996-97 sets out a vision of opportunities for economic development as well as for enhancing the quality of life. Environmental planning will no longer be associated merely with the analysis of ecological threats. It will enhance wider cooperation with our partners and strengthen public understanding of the inter-connected nature of our environmental problems.

It is clear that with the ringing endorsement of this programme by the Governing Council, UNEP has set for itself a very ambitious task indeed. But it is a task that we know has to be done.

One of our success stories of 1995 concerns the problem of control and elimination of pollution resulting from land-based activities.

Almost 80% of the pollution that reaches the marine environment originates from the land. Recognizing the importance of this problem, the international community adopted in November 1995, at the Intergovernmental Conference held in Washington, the Global Programme of Action for the Protection of the Marine Environment from Land-based Activities.

At this Conference, UNEP was designated as a Secretariat of the Global Programme of Action and was entrusted with the role of its implementation.

The cornerstone of the Global Programme of Action for the Protection of the Marine environment from Land-based Activities is its emphasis on assistance to national Governments in taking actions to preserve and enhance the marine environment. It identifies specific actions that can be taken at the global, regional and national levels.

Just as UNEP recognized the need for integrated programming, so the international community recognized that the problems of ocean space are closely interrelated and need to be considered as a whole, giving rise to integrated coastal and marine management with all its institutional implications - horizontal integration between sectors and disciplines, new forms of private and public cooperation and vertical integration between levels of governance: national, regional and global.

Effective implementation of the Global Programme of Action is a crucial and essential step forward in the protection of the marine environment and will promote the objectives and goals of sustainable development.

The Global Programme of Action recognized that regional cooperation and arrangements are crucial for successful actions to protect the marine environment from land-based activities. This is particularly so where a number of countries have coasts in the same marine and coastal area, most notably in enclosed or semi-enclosed seas.

UNEP is following with great interest the developments in the Mediterranean Action Plan regarding the control and elimination of pollution from land-based sources and activities. Recent developments in the Mediterranean Action Plan, namely the adoption of MAP II, revision of the LBS Protocol and the development of MED POL - Phase III, are in perfect harmony with the programme of implementation of the Global Programme of Action.

We hope that the Mediterranean will be an excellent example to other regions of the world on how to implement the Global Programme of Action through the development and implementation of the Regional Programmes of Action and as also the respective complementary National Programmes of Action.

In Barcelona, last year, on the 20th anniversary of MAP, you decided to update your instruments of action in particular the Barcelona Convention, to enlarge the geographic area of intervention to include the coastal zones and to tackle questions relating to sustainable development. The draft budget and recommendations established by the Secretariat for 1997 aim primarily at the implementation of the decisions taken last year.

On the legal front, it is necessary to complete the on-going process. This would mean that:

- the Annexes to the Protocol on Biodiversity and Protected Areas must be adopted as soon as possible by a Plenipotentiaries' Conference;
- the Protocol on the movement of hazardous wastes must also be signed during the next Conference in Izmir (Turkey) in October 1996;
- and finally that all the legal instruments, both revised and new should be ratified as soon as possible in order that they come into force.

On the institutional front, you decided to set up a Mediterranean Commission on Sustainable Development. This is an especially timely initiative which will provide a framework for regional cooperation for the implementation of Agenda 21, the follow-up to Agenda Med 21 and the 1994 Tunis Conference.

The Secretariat is submitting to you today the draft Terms of Reference of the Commission, as well as a note on its composition and the conditions and criteria for nominations. If you agree on the Terms of Reference we will be able to set up the Commission in December at Fez, where we will meet at the invitation of the Moroccan Government, and propose a draft work programme for 1997.

Now, turning to the implementation of the Barcelona Convention and its Protocols, I would first like to refer to the problem of pollution in the Mediterranean Sea.

The Report on the State of the Environment that the Secretariat has recently published and which will be available in French shortly shows clearly both the strong and the weak points of our institutional arrangements.

From the scientific point of view, we now have a good knowledge of the problems and the risks threatening the Mediterranean Sea. We also have a monitoring system which has been strengthened a great deal. On the other hand, we are seriously lagging behind both in terms of knowledge on land-based sources of pollution and in terms of policies to reduce the input of pollutants.

Action against pollution sources will be one of the main priorities in the next few years. In this connection, I believe that both the new LBS Protocol and the MEDPOL III instrument submitted to you are extremely appropriate.

Please allow me to insist on the efforts that will have to be made by each country to monitor and control pollution sources, especially toxic substances that are persistent and liable to bioaccumulate.

I am really looking forward to the meeting on Industrial Pollution that France and the city of Marseille are hosting in October 1996 and would like to congratulate the Coordinating Unit of MAP and the Industry-Environment Bureau for their cooperation in preparing this meeting.

I would also like to express my satisfaction for the fact that your new Regional Activities Centre in Barcelona focused on Clean Production has become operational.

At a workshop organized recently in Rome by UNEP (in partnership with various Italian public organizations and the NGO Eco-Med) it was demonstrated that interest in Cleaner Production is escalating in the region. By Cleaner Production we mean developing approaches to prevent pollution rather than clean up the problems once they have been created. A number of centres have already been established by Mediterranean countries to promote the message of Cleaner Production,. They are already forming the basis of a regional network.

The Centre for Cleaner Production Initiatives in Barcelona, Spain, has a particular

role to play in facilitating the operation of this network. These centres also represent promising foundations for the future development of Cleaner Production initiatives in the region. The tourism industry represents a sector of special interest where Cleaner Production approaches present new challenges. One other key challenge is the prevention of release of toxic substances from the Mediterranean sea from land-based sources. Cleaner Production will certainly be a key element of the plan of action that UNEP will be submitting for discussion at a meeting hosted in Marseille by the French Government in October. This is a follow up to the resolution on the Environment and Sustainable Development in the Mediterranean adopted in Barcelona last June.

On biodiversity, you now have excellent protocol and an Action Plan based on it. The priority again is to implement it. In my view it is also very important to focus on wetland protection schemes which are being developed. We will also, at the appropriate time, endeavour to support them at the GEF level.

Integrated management of coastal areas is also one of your principal priorities. The seminar hosted by the Greek authorities in Santorini made evident both the challenges and the scope of the tasks to be carried out in that direction. I trust that the Mediterranean Commission on Sustainable Development must tackle this strategic question and propose to you the necessary steps to take in this regard.

The implementation of MAP rests on several conditions. These are:

1. At the level of the MAP Secretariat and the Regional Activities Centres, adequate human and financial resources will be needed in order to carry out our new tasks. The Coordinating Unit and the RACs must have the necessary funds in their budgets to carry out the activities that you entrust them with and the countries that need it must be given adequate technical support.

This is why the draft budget submitted to you contains a 7% increase in contributions, which given the consequences of the rate of inflation, seemed reasonable. The Bureau has supported this proposal. I hope that you can adopt it.

2. Obviously, the budget of MAP will not cover all the needs. It is thus with pleasure that I see that METAP will continue and expand its activities in the Mediterranean; I am very pleased with how close the cooperation between MAP and METAP has become. Furthermore, we are anxiously awaiting the allocation of funds by the European Union (MEDA) for water management and environmental projects in the Mediterranean as a follow-up to the Barcelona November 1995 Euro-Mediterranean Conference. Here again cooperation is satisfactory.

The Mediterranean has been a model of regional cooperation in the field of environmental protection. The beginning of the new decade last year in Barcelona will usher challenges for the success of MAP. I hope that you can give yourselves the means to reach the objectives set at regional, national and local levels.

UNEP is very pleased to be entrusted yet again with the role of the Secretariat of the Barcelona Convention. Please be assured that we intend to do our utmost to meet this obligation.

I trust you are as satisfied as I am with the significant performance of Mr Chabason - in only two years he has provided leadership in the revitalization of the Coordinating Unit - both administratively and substantively, I take this opportunity to thank him publicly for his efforts.

Before I conclude, there is a very pleasant task I have to perform, a task for which this meeting provides the ideal background. I have already referred in my remarks to the MAP being a model of regional cooperation worthy of emulation.

Clearly, this would not have been possible but for the ideas and remarkable initiatives taken by its managers. The first and foremost name which immediately comes to our mind is that of Mr Ljubomir Jeftic.

Mr Jeftic, it will be unnecessary to describe your distinguished record in the service of the Mediterranean Action Plan. Thanks to your dedicated contribution, the Mediterranean Unit is very much recognized and appreciated today.

On 31 August this year, "Beb" as Mr Jeftic is popularly known will retire as the Deputy Coordinator of UNEP's Coordinating Unit for the MAP.

Let me assure you Beb that we are deeply conscious of everything that you stand for and what you have always contributed to the success of the MAP.

I am sure that all of those present today will join me in wishing you best wishes for your future.

In some respects the Mediterranean region is a microcosm of the World - countries of cultural, social and economic diversity which exist in close proximity. Yet, at the same time, there are remarkable similarities - environmental inheritances for example.

This suggests that solutions devised here may have opportunities for replication for the world in general and for sustainable production and consumption patterns in particular.

I wish you the very best in your deliberations.

Thank you.

ANNEX III

AGENDA

1. Opening of the meeting
2. Rules of procedure
3. Election of officers
4. Adoption of the Agenda and organisation of work
5. Credentials of representatives
6. **Progress report of the Executive Director of the United Nations Environment Programme on the implementation of the Mediterranean Action Plan in 1995/1996**
7. **General discussion on the programme and budget of the Mediterranean Action Plan (MAP)**
8. **Proposed recommendations and programme budget for 1997 and contributions by the Contracting Parties to the Mediterranean Trust Fund (MTF) for 1997:**
 - 8.1 **Programme Coordination**
 - 8.2 **Sustainable Development in the Mediterranean**
 - 8.2.1 Adoption of Terms of Reference of Mediterranean Commission on Sustainable Development
 - 8.3 **Conservation of Nature, landscape and sites**
 - 8.4 **Assessment, prevention and elimination of marine pollution**
 - 8.4.1 Adoption of MED POL Phase III - Programme for the Assessment and Control of Pollution in the Mediterranean Region (1996-2005)
 - 8.5 **Information and participation**
 - 8.6 **Status of legal framework**
9. Date and place of the Tenth Ordinary Meeting of the Contracting Parties in 1997
10. Other business
11. Adoption of the report of the meeting
12. Closure of the meeting

ANNEX IV
APPROVED RECOMMENDATIONS AND
PROGRAMME BUDGET FOR 1997

I. RECOMMENDATIONS:

The Contracting Parties agree:

A. INSTITUTIONAL AND FINANCIAL ARRANGEMENTS (Chapter III of MAP II)

(a) Financial Arrangements

1. To request the Secretariat to establish contact with the European Union (EU) to consider further development of its financial participation in MAP through an increase of its voluntary contribution.
2. To call on Mediterranean countries, Contracting Parties to the Barcelona Convention, to invite the EU, in the light of the expanded fields of activities defined in MAP II, to identify together with the Secretariat priority problems, and develop programmes and activities in the framework of the Mediterranean Action Plan which could be financed through the Euro-Mediterranean Initiative (MEDA).
3. To invite METAP to consider the further strengthening of its joint work with the Secretariat and an increased financial contribution to activities of common interest, such as: (a) development and implementation of the Regional Programme of Action and the National Programmes of Action for the implementation of the LBS Protocol, and in this context the identification of pollution "hot spots" and the preparation of feasibility studies for investment in the programme for their elimination; (b) capacity building in developing countries, in particular assistance to countries for the establishment or improvement of national systems of environmental inspections; c) improvement of the development of Integrated Coastal Areas Management (ICAM) in the Mediterranean and d) conservation of nature.

(b) Institutional Arrangements

1. To approve a revised structure of the personnel at the Coordinating Unit with the creation of an official post of Deputy Coordinator, a post of MEDPOL Coordinator and a post of a Marine Scientist within MEDPOL, by converting the present post of a Senior Marine Scientist, the post of Senior Fishery Officer (FAO) and the post of IAEA Maintenance Engineer (Monaco). The function of Deputy Coordinator will include coordinating the activities related to the implementation of sustainable development in the Mediterranean and assisting the work of the Mediterranean Commission on Sustainable Development (MCSD). The Secretariat in the course of the above restructuring should make every possible effort to retain experienced MED POL staff already serving in the MED Unit.

2. To further strengthen the cooperation of MAP with UN Agencies.
3. To invite the Coordinator to establish a small ad hoc group of limited duration, composed of representatives of the Contracting Parties, to examine the best possible structures for the Coordinating Unit and MED POL in the light of the activities to be carried out by MAP following the revision of the Convention and its Protocols in Barcelona in 1995.

The group will also review the role, functions and structures of the Regional Activity Centres and the Secretariat of the 100 Historic Sites and the relations they should maintain with one another. It will also make recommendations to be submitted to the Contracting Parties for their approval concerning the evaluation of the activities of the Regional Activity Centres and the Secretariat of the 100 Historic Sites.

4. To approve the Terms of Reference of the Mediterranean Commission on Sustainable Development (MCSD) as contained in Annex V and the Composition of the Commission as contained in Annex VI.
5. To recommend to the Governing Council of UNEP to extend the Mediterranean Trust Fund (MTF) through 31 December 1999.

(c) Strategic Priorities

1. To invite the Contracting Parties to give high priority to the implementation of the MAP legal instruments, and request the Secretariat to assist them in the implementation of those instruments, in particular the Land-based Sources and Specially Protected Areas Protocols as priority tasks.
2. To invite the Contracting Parties to make every effort for the full implementation of the Global Programme of Action for the Protection of the Marine Environment from Land-Based Activities, through the development of National Programmes of Action as envisaged in the amended LBS Protocol.
3. To invite the Contracting Parties which are eligible to apply for projects with the Global Environment Facility (GEF), in particular projects in the fields of biodiversity and international waters.
4. To invite the Secretariat, in consultation with the Contracting Parties and with the assistance of two to three experts, to propose the development of a system of coherent reporting by the Contracting Parties in conformity with MAP II and the relevant provisions of the Barcelona Convention and its protocols.

B. SUSTAINABLE DEVELOPMENT IN THE MEDITERRANEAN (Chapter I of MAP II)

SUPPORT TO THE MEDITERRANEAN COMMISSION ON SUSTAINABLE DEVELOPMENT

1. To ask the Secretariat to assist through all its components the work of MCSD through the preparation of the necessary documentation and the organization of meetings.
2. To ask the Secretariat to submit to the Second Meeting of the Mediterranean Commission for Sustainable Development guidelines for the preparation of special national legislation ensuring the sustainable development of coastal areas notably employing innovative instruments as for example land use and land tenure policies.

1. INTEGRATING ENVIRONMENT AND DEVELOPMENT

(a) Observation and Systemic and Prospective Analysis of Environment and Development in the Mediterranean (Blue Plan-BP/RAC)

1. To invite the Secretariat (BP/RAC) to pursue and improve, in conformity with Agenda MED 21, the systemic and prospective analysis of development/ environment interactions in the Mediterranean and mainly its coastal regions, in particular the analysis of Mediterranean sustainable development problematics, and to identify short and medium-term objectives for sustainable development programmes, as a contribution to the decision-making process towards sustainable development and as technical support for the activities of the Mediterranean Commission on Sustainable Development.
2. To invite the Secretariat (BP/RAC) to prepare a medium (5 year) and long (10 year) term programme of activities ("Blue Plan 2000"), integrating its major functions, taking into consideration cooperation with MEDU and RACs and the production of a major Mediterranean output by the year 2000, and focusing on coastal regions.
3. To invite the Secretariat (BP/RAC) to develop and strengthen a Mediterranean environment and development information system, and to identify and elaborate pertinent indicators, statistics and information to monitor and evaluate Mediterranean institutions, environment and development, in order to assist the decision-making process towards sustainable development.

4. To invite the Secretariat (BP/RAC) to strengthen the implementation and development of the "Mediterranean Environment and Development Observatory" function (MEDO) in close cooperation with MEDU and RACs, together with Mediterranean countries and regional/international organizations (e.g. EU-EC/EEA/EUROSTAT, UNEP/GRID, METAP, FAO, OECD, CEDARE, SSO), and to provide it with the necessary assistance and support.
5. To invite the Secretariat (BP/RAC) to assist Contracting Parties in the preparation, implementation and development of national/local observatories as supporting tools for National Environmental Action Plans (NEAPs) and sustainable development strategies and policies, through technical support, exchange of experience and cooperation in order to promote a Mediterranean network.
6. To encourage the Secretariat (BP/RAC) to continue to seek additional support from partner institutions such as EC/EEA/EUROSTAT, METAP, etc, in order to strengthen studies, networking and capacity-building activities, mainly on development/environment interactions, environmental statistics, indicators and institutional analysis.
7. To invite the Secretariat (BP/RAC) to improve information on its activities and the dissemination of its products and to continue the preparation and publication of its regional and sectoral studies, such as "Fascicules", "Country Profiles" and "Technical Notes".

(b) Coastal Planning and Management - Priority Actions Programme (PAP/RAC)

1. To invite the Secretariat (PAP/RAC) to continue furthering and refining the methodology of integrated planning and management in coastal areas (ICAM) with the aim of achieving a rational management of coastal resources and sustainable development in Mediterranean coastal areas.
2. To invite the Secretariat (PAP/RAC) to develop and apply, in cooperation with other components of MAP, as well as national and local authorities, organizations and institutions operating outside the MAP system, relevant policies and methods of sustainable development planning in coastal towns of the Mediterranean basin, particularly those of the developing countries.
3. To invite the Secretariat (PAP/RAC) to develop practical management methods, tools and techniques for sensitive and vulnerable coastal resources, particularly the Geographic Information System (GIS), Carrying Capacity Assessment for tourism (CCA), Decision Support and Expert Systems (DSS), multicriteria analysis, etc., and to ensure their dissemination to the Mediterranean countries.

4. To invite the Secretariat (PAP/RAC) to continue developing tools and techniques for the assessment of the environmental effects of development decisions in coastal areas through the implementation of individual projects (Environmental Impact Assessment - EIA), and to assist Mediterranean countries in the application of these tools and techniques.
5. To invite the Secretariat (PAP/RAC) to continue its activities of building up and strengthening national and local institutional capacities for ICAM, with emphasis on the organization of national and regional training courses, workshops, and seminars addressing topics of special importance.
6. To invite the Secretariat (PAP/RAC) to continue furthering the method of integrated management of water resources in Mediterranean coastal areas, as well as relevant tools and techniques, and to assist the responsible national authorities and institutions in applying them.
7. To invite the Secretariat (PAP/RAC) to develop and disseminate appropriate methodologies within the scope of other priority actions (solid and liquid waste management, environmentally sound aquaculture development, and soil erosion and desertification), and to transfer to Mediterranean countries the most successful experiences in these priority fields.

(c) Cleaner Production in the Mediterranean - Cleaner Production Regional Activity Centre (CP/RAC)

1. To nominate without delay National Focal Points related to cleaner production to enable cooperation with CP/RAC.
2. To invite the Secretariat (CP/RAC) to organize in 1997, as a follow-up to the First National Focal Points on Cleaner Production Meeting in 1996, a Second National Focal Points Meeting to be held in a South Mediterranean Basin country.
3. To invite the Secretariat (CP/RAC) to organize in 1997, as a follow-up to the First Surface Treatment and Coating Sector Expert Meeting in 1996, a Second Expert Meeting coinciding with the Second NFP Meeting, which will discuss and analyse the sector proposed in the First NFP Meeting.
4. To invite the Secretariat (CP/RAC) to publish a CP/RAC presentation folder to introduce it and to spread its goals and functions as the Cleaner Production Regional Activity Centre within the framework of the Mediterranean Action Programme.
5. To invite the Secretariat (CP/RAC) to publish a leaflet about cleaner production success stories within the Mediterranean region to show real examples of pollution prevention and cleaner production achieved by different companies, most especially small and medium-sized ones.

6. To invite the Secretariat (CP/RAC) to cooperate with regional and national Centres for cleaner production in the Mediterranean Area.

(d) Coastal Areas Management Programme (CAMP)

1. To invite the Secretariat to continue work on the six projects approved by the Seventh and Eighth Meetings of the Contracting Parties (Algeria, Tunisia/Sfax, Morocco/Al-Hoceima, Israel, Malta and Lebanon).
2. To invite the national authorities concerned and the relevant bilateral and multilateral programmes to support the above-mentioned CAMP projects as practical demonstration areas for sustainable development and for the protection of the Mediterranean environment.
3. To present to the next Ordinary Meeting of the Contracting Parties an evaluation of the results of the CAMPs and proposals for necessary changes for the future.
4. To approve and start preparation for a Coastal Area Management Programme for Slovenia, in line with the procedure being applied by the Secretariat for CAMP projects and taking into consideration the results of the evaluation of CAMPs.

2. CONSERVATION OF NATURE, LANDSCAPE AND SITES

(a) Specially Protected Areas

1. To take note of the three draft annexes to the Protocol concerning Specially Protected Areas and Biological Diversity in the Mediterranean (List of endangered or threatened species; List of species whose exploitation is regulated; Common criteria for the choice of protected marine and coastal areas that could be included in the SPAMI List) as recommended by the meeting of the National Focal Points for SPA (Tunis, 25-27 March 1996).
2. To take note of the report of the meeting of experts on endangered species (Montpellier, 22-25 November 1995), and to invite the Secretariat (SPA/RAC) to work on the implementation of the recommendations of the above meeting.
3. To invite the Secretariat (SPA/RAC) to pursue the development of its databases and to disseminate them in a computerized form to the Contracting Parties and concerned NGOs.
4. To invite the Secretariat (SPA/RAC) to evaluate the implementation of the three action plans for the conservation of species adopted within MAP.

5. To invite the Secretariat (SPA/RAC) to prepare common criteria and guidelines for the preparation, at the national level, of inventories of sites, species and other elements of biological diversity, and guidelines for preparing management plans for SPAs.
6. To invite the Secretariat (SPA/RAC) to pursue coordination with the Secretariat of the Convention on Migratory Species concerning the agreement on cetaceans currently under preparation for the Mediterranean and the Black Sea.
7. To invite the Secretariat (SPA/RAC) to pursue its activities for the enhancement of national capabilities, taking into account the relevant recommendations made by the Third Meeting of the National Focal Points for SPA (Tunis, 25-27 March 1996).
8. To invite the Secretariat (SPA/RAC) to pursue cooperation in the context of the Berne Convention and to participate in the "Pan European Strategy on Biological and Landscape Diversity" resulting from the "Environment for Europe process" (Ministerial Conference at Sofia, 1995).
9. To invite the Secretariat (SPA/RAC) to pursue its assistance to the Contracting Parties in managing protected areas, in particular by elaborating common methodologies for the evaluation of the efficiency of management programmes.
10. To support the initiative by MEDWET and the "Conservatoire du littoral" for the protection of Mediterranean Wetlands and coastal ecosystems, achieved in particular through land policy. The Contracting Parties express satisfaction for the interest shown by GEF/UNDP and the European Union for those programmes and invite the managers of those programmes to inform the Secretariat on the progress made in the activities.

3. ASSESSMENT, PREVENTION AND ELIMINATION OF MARINE POLLUTION

(a) MED POL Activities

1. MED POL Phase III

1. To ask the Secretariat to prepare the assessment of the MED POL-Phase II programme (1981-1996) including the summarized results of the monitoring and research activities, an overview of the Data Quality Assurance programme and assistance to countries through training and fellowships.
2. To approve the MED POL - Phase III Programme for the assessment and control of pollution in the Mediterranean region (1996 - 2005), as contained in the Appendix hereafter.

3. To ask the Secretariat to analyse and monitor continuously the development and implementation of the scientific and technical aspects of the MED POL Phase III Programme, as necessary, with the assistance of Mediterranean experts to be identified in consultation with the Contracting Parties.
4. To ask the Secretariat to cooperate with existing major international programmes (e.g. RAMOGE, POEMBC, PRIMO) in the implementation of MED POL Phase-III.

2. Assessment of Pollution-related Problems

To ask the Secretariat to formulate a regional programme of coastal zone trend monitoring to be implemented by the Contracting Parties.

To ask the Secretariat to formulate compliance monitoring programmes to be implemented by the Contracting Parties in their respective countries: the programmes should include all the adopted common measures and other relevant decisions of the Contracting Parties.

To ask the Secretariat to provide assistance to developing Contracting Parties, which so request, in their efforts to redesign and implement their national monitoring programmes.

To ask the Secretariat to continue to work on the development of a biological effects (marine organisms) monitoring programme to be implemented by the Contracting Parties in parallel with the chemical component of the existing monitoring programme within the framework of MED POL, as decided at the Eighth Ordinary Meeting of the Contracting Parties in 1993.

To ask the Secretariat to continue implementing Data Quality Assurance activities, including microbial parameters, in order to ensure the full reliability of results and to assist countries in their interpretation.

To approve the utilization of 50 per cent of the 1997 budget earmarked for research for projects on eutrophication and biological effects.

3. Pollution Control

(i) Implementation of LBS Protocol

To ask the Secretariat to take all necessary action in order that full implementation of the LBS Protocol is achieved.

To urge Contracting Parties to implement the common measures adopted and to inform the Secretariat accordingly.

To urge Contracting Parties to report on their action to incorporate the decisions on common measures into national legal instruments.

To ask the Secretariat to provide assistance (including capacity building) to Contracting Parties requesting it for the implementation and enforcement of the control measures adopted by them.

To request the Secretariat to follow up the implementation by the Contracting Parties of the pollution control measures adopted.

To ask the Secretariat to provide assistance to Contracting Parties requesting it in formulating and implementing national, subregional and regional action plans for the control of land-based pollution.

To urge Contracting Parties which have not completed the questionnaires for the survey of land-based sources of pollution to do so at the latest by September 1996 to enable the Secretariat to prepare a final version of the survey by March 1997.

To ask the Secretariat to organize a meeting of government-designated experts for the preparation of the Regional Action Plan for the control and elimination of pollution by land-based sources and activities.

To ask the Secretariat to organize a regional and, if necessary, sub-regional, programme for the identification of pollution "hot spots" (sources).

To ask the Secretariat to formulate a programme of assistance for the Contracting Parties which request it, for the establishment or enhancement of a national inspection system, and the organization of the appropriate training.

(ii) Implementation of the Dumping Protocol

To urge Contracting Parties to make every effort to send out on a regular basis annual reports to the MED Unit on dumping, including nil reports.

To ask the Secretariat to make use of the results of the Meeting of Government-designated expert on the Preparation of Guidelines for the Management of Dredged Material held in Valencia, Spain, from 20 to 22 May 1996, and, as a result, to prepare new draft Guidelines with the assistance of experts. The new draft Guidelines should be discussed and approved by a second Meeting of experts to be financed by a Contracting Party and, subsequently, presented to the Meeting of Contracting Parties for adoption.

(iii) Assessments and control measures

To take note of the following:

Assessment of the state of pollution of the Mediterranean Sea by zinc, copper and their compounds

Zinc and copper, which appear in Annex II of the LBS Protocol, are found in nature principally in sulphide deposits and in minerals of basaltic rocks. Zinc also occurs as a silicate complex and as a carbonate. Weathering and erosion of the earth's crust release and transport zinc and copper into the marine environment, mainly by surface run-off, rivers and atmospheric deposition. Anthropogenic activities also contribute to the level of inputs into the marine environment. Such activities are: mining, industrial processing of ores and metals and the disposal of metals and their compounds mainly in sewage and sludges. Other activities, such as the combustion of fossil fuels, waste incineration and smelting-release zinc and copper into the atmosphere from where they are subsequently transported to the sea through various routes.

If atmospheric inputs, as well as inputs through the straits of Gibraltar and the Dardanelles (Canakkale Bogazi), are taken into consideration, the estimated loads into the Mediterranean sea are about 90,000 tons per year for zinc and 24,000 tons per year for copper.

The levels of zinc in seawater can be as high as $450 \mu\text{g L}^{-1}$ especially in polluted harbours. However, in clean offshore areas, the values range from 1 to $5 \mu\text{g L}^{-1}$ and can even be as low as $0.02 \mu\text{g L}^{-1}$. The reported copper concentrations for the Mediterranean are lower and vary from $0.2 \mu\text{g L}^{-1}$ to $50 \mu\text{g L}^{-1}$ in the vicinity of point sources.

The concentration levels of these metals found in sediments vary with the extraction method used. For total extraction and subsurface samples the background levels for zinc and copper are estimated to be 20 and $15 \mu\text{g g}^{-1}$ DW respectively. In polluted areas, concentrations of up to a few thousand $\mu\text{g g}^{-1}$ have been reported, with copper values lower than those for zinc.

The concentrations of these metals in marine biota vary according to species. The highest concentrations are found in some molluscs, such as oysters, in which concentrations of Zn may exceed $100 \mu\text{g g}^{-1}$ FW and those of copper $20 \mu\text{g g}^{-1}$ FW. From MED POL data it has been estimated that the average zinc value for the entire Mediterranean in the mussel Mytilus galloprovincialis is $27 \mu\text{g g}^{-1}$ FW and in the fish Mullus barbatus about $4 \mu\text{g g}^{-1}$ FW. The respective values for copper are $1.3 \mu\text{g g}^{-1}$ for M. galloprovincialis and $0.4 \mu\text{g g}^{-1}$ for M. barbatus.

Seafood is a major source of zinc and copper for man. Intake of excessive doses of copper by man leads to severe mucosal irritation and corrosion, widespread capillary damage, hepatic and renal damage and irritation of the central nervous system followed

by depression. However, in general, the concentrations found in edible species do not pose a threat to human health. The reported lowest lethal dose known for zinc for a human is $500 \mu\text{g kg}^{-1} \text{ bw/day}$, and zinc has not been implicated in any human disease derived from the eating of seafood. Copper poisoning of dietary origin is also rare in man and higher mammals owing to the powerful emetic action of copper. However, both metals have been found to have adverse effects on marine life at concentrations much lower than those occurring in polluted areas. Copper concentrations in seawater as low as $10 \mu\text{g L}^{-1}$ had a significant inhibitory effect on the shell growth of *M. edulis* and $5 \mu\text{g L}^{-1}$ on the reproduction of the isopod *Idothea baltica*. Zinc values of between 10 and $40 \mu\text{g L}^{-1}$ have been shown to have harmful effects on the life of marine organisms.

In order to protect marine organisms, communities and ecosystems, the concentrations of both metals in seawater have to be reduced to levels which are not harmful. For this purpose it is necessary to limit the inputs of copper and zinc in the marine environment, both in the quantity discharged per unit time and the concentration of the metals in liquid effluents and sludges, as well as emissions to the atmosphere.

It is recommended that environmental quality objectives be set for the coastal waters of the Mediterranean. As a step towards the achievement of these water quality objectives, it is also recommended that limit values be set for all effluent discharges into the Mediterranean Sea.

For the protection of human health, it is recommended that the situation should be monitored and that legal limits should be imposed only when and where necessary.

To adopt the following:

Measures for the control of pollution by zinc, copper and their compounds

The Contracting Parties, bearing in mind article 4 of the Barcelona Convention and article 6 and Annex II of the Land-Based Sources Protocol, as well as the principle of the precautionary approach adopted by them at their 6th Ordinary Meeting (Athens, 3-6 October 1989), and taking into consideration the conclusions of the UNEP/FAO/WHO document (UNEP(OCA)/MED WG.111/Inf.3) on the assessment of the state of pollution of the Mediterranean sea by zinc, copper and their compounds,

agree to take the following action as from 1 January 1998:

- (a) For the protection of marine organisms, communities and ecosystems
 - to set water quality objectives for total dissolved copper and zinc in their coastal waters: These objectives should be $10 \mu\text{g L}^{-1}$ for zinc and $5 \mu\text{g L}^{-1}$ for copper.

As a step towards the achievement of the above quality objectives, they agree:

- to set limit values for both copper and zinc in all effluent discharges into the Mediterranean Sea before dilution. These values should be 0.5 mg for copper and 1.0 mg for zinc per litre discharged (monthly flow-weighted average concentration of total copper and zinc);
- (b) For the protection of human health
- to monitor the trends of zinc and copper content in marketed species of seafood;
 - to identify areas where high levels of copper and zinc in edible species of seafood are reported and might pose a health problem, taking into account their intake from other sources;
 - to impose legal limits on the copper and zinc content of seafood in such areas (or any other restrictions considered appropriate under prevailing conditions), should the local situation so demand, including prohibition of aquaculture and fishing activities in such areas;
 - to formulate and implement recommended measures to regulate the type and amount of seafood consumed by high-risk groups, if it is considered that such groups are not sufficiently protected by local measures of a general nature;
- (c) To report to the Secretariat on measures taken in accordance with this decision.
- To take note of the following:

Assessment of the state of pollution of the Mediterranean Sea by anionic detergents

Detergents containing anionic surfactants represent 60% of the commercially used surfactants; cationic surfactants used as fabric softeners and disinfectants (quaternary ammonium cationics) represent 10%; and the remainder is represented by non-ionic surfactants. The most widely used anionic detergents are LAS (linear-secondary alkylbenzenesulfonate), which is rapidly degraded by environmental microorganisms, derived from linear alkylbenzenes (LAB) by sulfonation of alkylbenzene with H₂SO₄ or SO₃. Degradation of anionic detergents in sewage treatment plants before reaching natural waters is not always complete, and alkyl phenols which are highly toxic to fish and small water invertebrates, may be formed during aerobic and especially during

anaerobic treatment in anoxic conditions. It has been demonstrated that primary biodegradation of LAS in estuarine waters depends strongly upon several factors, such as the origin of the bacterial culture, the temperature conditions and the structure of alkylbenzenes.

The most important sources of anionic detergents in the Mediterranean Sea are land-based sources, and detergents are introduced into the marine environment directly from outfalls discharging into the sea or through coastal dispersion, and indirectly through rivers, canals or other watercourses, including underground watercourses, or through run-off. Information on the amount of anionic detergents reaching the Mediterranean Sea is sparse. A pilot monitoring survey carried out in 1992 provided some more information on levels of anionic detergents. Levels in seawater ranged from 0.01 to 4.2 $\mu\text{g L}^{-1}$, in effluents from 0.11 to 34.07 $\mu\text{g L}^{-1}$ and in rivers from 0.06 to 26.86 $\mu\text{g L}^{-1}$. This study, however, had to be restricted to a few coastal areas and the results cannot be interpreted as providing any indication of the situation prevailing in the Mediterranean as a whole. Overall assessment of the situation with regard to the Mediterranean was made on the basis of current knowledge at the global level, taking into consideration the existing differences in sampling and analytical techniques. For the purpose of the study, the levels of concentration were determined by methylene blue active substances (MBAS) and LAS.

Considering that the ingestion of small quantities, even repeatedly, of seawater polluted by anionic surfactants, may be regarded as free of risk, the poor percutaneous absorption and the low toxicity of anionic detergents suggest that there appears to be no risk to human health through contact with detergent-polluted seawater, provided that concentrations in any particular locality do not reach levels sufficient to produce visible foam on the surface. Nevertheless, it must be borne in mind that another effect of detergents on the skin barrier is that it allows the absorption of other compounds which are temporarily present.

Concentrations of anionic detergents measured in the Mediterranean Sea may represent a risk for marine biota on all occasions when they reach levels of effect. The danger to fish comes from exposure of the gill tissues to the detergent, rather than from ingestion. Very important toxic effects are experienced by fish swimming in water containing LAS (or other detergents) at low (few $\mu\text{g L}^{-1}$) concentrations. It must also be taken into account that no data are available to support the hypothesis of a widespread risk for marine biota in the Mediterranean Sea from anionic detergents, but that some data may lead to the belief that there are some risk situations where high amounts of non-degraded anionic detergents are present in seawater, especially in areas where there is a discharge of untreated sewage wastes.

In a number of Mediterranean countries, detergents are limited by legal restrictions respecting their discharge into the marine environment. Such restrictions generally relate to the use of a high percentage of anionic detergents and to permissible concentrations of detergents in the discharges, as well as in the sea.

- To adopt the following:

Measures for the control of pollution by detergents

The Contracting Parties, bearing in mind article 4 paragraph 1 of the Barcelona Convention and article 6 and Annex II of the Land-Based Sources Protocol, as well as the principle of the precautionary approach adopted by them at their 6th Ordinary Meeting (Athens, 3-6 October 1989), and also taking into account the high incidence of the use of anionic detergents as compared to non-anionic ones, and of the fact that anionic detergents are rapidly degraded in the environment, consider that a holistic approach has been adopted for detergents in general. The Contracting Parties also, taking into consideration the conclusions of the UNEP/WHO document (UNEP(OCA)/MED WG.111/Inf.4) on the assessment of the state of pollution of the Mediterranean Sea by anionic detergents,

agree to take the following action as from 1 January 1998:

- (a) to promote measures to reduce inputs into the marine environment of non-biodegradable detergents by restricting the use of detergents to those which are reasonably (90%) biodegradable;
- (b) to reduce the input of detergents in identified hot-spot areas: such actions would have to be individually tailored to suit the conditions prevailing in each particular locality so identified;
- (c) to monitor the level of detergents in coastal recreational areas: as a routine measure this could be done visually, with analysis only resorted to when any particular circumstance so demands;
- (d) to make, whenever possible, the monitoring of detergents in effluents a component of pollution source monitoring within the framework of MED POL;
- (e) to report to the Secretariat on all measures taken in accordance with this decision.
- (iv) Other recommendations

Recommendations for prevention and control of microbiological pollution

The Contracting Parties, bearing in mind the targets relating to the establishment of sewage treatment plants and submarine outfall structures contained in the Genoa Declaration and the interim environmental quality criteria for bathing waters, adopted for a transitory period during their Fourth Ordinary Meeting in Genoa from 9 to 13 September 1985, as well as the criteria for shellfish waters, adopted during their Fifth

Ordinary Meeting in Athens from 7 to 11 September 1987, and taking into consideration the UNEP/WHO document (UNEP(OCA)MED WG.111/Inf.8) on the new assessment on the state of microbiological pollution of the Mediterranean Sea, completed in December 1995,

- Take note of the following:

Assessment of the state of microbiological pollution of the Mediterranean Sea

A considerable number of species and strains of pathogenic microorganisms, including mainly bacteria and viruses, but also fungi and protozoa, are known to be present in varying degrees of population density in Mediterranean coastal waters. Some of these are endemic in a number of Mediterranean areas. A number of algal species that produce biotoxins which affect man; mainly through the consumption of contaminated shellfish, have also been identified in various parts of the Mediterranean and are posing a risk in areas where local conditions lead to eutrophication and the development of algal blooms.

Diseases and disorders associated with infection by such pathogenic organisms have been recorded both among local Mediterranean populations and among tourists visiting the region. Except under specific circumstances, however, it is difficult to link infection with bathing in polluted coastal marine areas, with consumption of contaminated shellfish, as practically all such diseases and disorders can result from causes other than marine pollution. In the case of a number of non-gastrointestinal diseases contracted through bathing, it is being recognized that the cause may be high bather density rather than polluted seawater.

In conformity with global practice, the rationale for developing and enforcing seawater and shellfish quality criteria and standards in all Mediterranean countries involves the establishment of upper concentration limits of one or more bacterial indicator organisms as an index of acceptability or otherwise. Criteria and standards for bathing waters vary in the different countries, most of them being based either on the interim criteria for bathing waters adopted by the Contracting Parties to the Barcelona Convention and Protocols in 1985, or on the 1975 EC Directive on the quality of bathing waters. There is a similar variation between the various national criteria and standards for shellfish waters.

Records of bathing water monitoring for the period 1983 to 1992 from thirteen Mediterranean countries submitting their data to MED POL and assessed on the basis of conformity with the 1985 interim criteria for bathing waters appear to show reasonable microbiological quality, but cannot be properly evaluated owing to non-compliance with the stipulated monitoring frequency. These records, however, are known to present an incomplete picture of actual monitoring programmes in at least some Mediterranean states. On the other hand, the quality of bathing waters in the four Mediterranean EC Member States, assessed on the basis of compliance with the guide values of the 1975 EC bathing water Directive, show a positive trend over the last few years, probably as

a result of improved wastewater management practices. The two sets of criteria and standards are not directly comparable. In the case of shellfish waters, no monitoring data has been available since the completion of the first phase of MED POL in 1981.

Recent international epidemiological data have cast doubts on the validity of current indicator bacteria as an accurate index of pathogen presence and density, in view of the longer survival of pathogens than of the indicator bacteria in seawater and shellfish and their greater resistance (particularly in the case of viruses) to conventional sewage treatment. The results of the studies in question have also accentuated the need for reliance on multiple, as opposed to single, indicator bacteria, supplemented by monitoring for the more serious pathogens at appropriate times. There is now sufficient data on the basis of which criteria and standards of a more permanent nature than the interim ones adopted in 1985 can be developed, in order to ensure adequate health protection for both local populations and tourists using coastal marine recreational amenities. In view of the lack of data, the matter of shellfish requires further study.

While the general situation can be said to have improved to a variable extent over the Mediterranean region, an acceleration of effort in achieving those targets listed in the 1985 Genoa Declaration related to the establishment of sewage treatment plants and submarine outfall structures is necessary in order to further reduce marine pollution and its resultant threats to human health.

Action for prevention and control of microbiological pollution

Agree on the following action:

- (a) To observe the terms of the measure on interim criteria for bathing waters adopted during their Fourth Ordinary Meeting in 1985 as well as to draw up new criteria taking into account the results of work conducted in an international context and to establish new standards relevant to the Mediterranean;
- (b) to observe the terms of the measure on the criteria for shellfish waters, adopted during their Fifth Ordinary Meeting in 1987, and to ensure that this is supplemented by adequate health or marketing legislation on shellfish quality to protect the consumer from contaminated produce;
- (c) to promote, both within the framework of MED POL and otherwise, the following studies:
 - microbiological surveys to satisfy the requirement for a more comprehensive catalogue of the presence and (where feasible) density of pathogenic microorganisms in sewage effluents and in those marine areas (recreational and shellfish-growing) known to be affected by such effluents.

This would provide essential data for the design of new sewage treatment facilities and outfall structures in such localities, and for any possible modifications required in the case of existing ones;

- epidemiological studies (i) on the correlation between recreational water quality and observed health effects on exposed population groups, covering the main water sport activity areas (including bathing), (ii) correlating the incidence of specified diseases and disorders with beach overcrowding, and (iii) aimed at identifying the extent to which contaminated seafood (as opposed to other sources) is responsible for the incidence of gastrointestinal diseases and disorders in both local populations and tourists;
 - microbiological studies correlating the density of bacterial indicator organisms with the presence and density of pathogens such as *Salmonella*, and studies to try to interpret the real pathogenic significance of pathogens such as *Salmonella* and enteroviruses in seawater samples;
 - Studies: (i) on the development of less expensive techniques for the identification of viruses, (ii) on the development of reliable techniques for the determination of bacteriophages and on the criteria for selection of the most appropriate bacteriophages to be determined for evaluation of the presence of enteroviruses, with the aim of being able, at some future date, to propose limit values for bacteriophages, and (iii) on the survival and adaptation of pathogenic and indicator microorganisms released into the Mediterranean marine environment, including the mechanisms responsible for change;
- (d) to include, to the extent possible, all coastal waters used for bathing purposes in their national and local coastal recreational water quality monitoring programmes, and to include all ongoing programmes in this field in their national agreements with the Secretariat within the framework of MED POL;
- (e) to accelerate the establishment of sewage treatment plants and submarine outfall structures in the appropriate cities and towns, in order to further prevent pollution by sewage at source, and achieve the relative targets contained in the 1985 Genoa Declaration by the earliest possible date:
- (f) to provide the Secretariat to the Convention and Protocols with the fullest information possible on all updates of legislation and administrative measures respecting national criteria and standards for coastal recreational and shellfish waters.
- (c) Remote Sensing Activities (ERS/RAC)
1. To invite the Secretariat (ERS/RAC) to enhance its activities relating to the development and demonstration of the physical observation and study of the environmental state and

modification of marine and coastal areas in the Mediterranean basin, thus contributing to the decision-making process concerning the sustainable management of resources.

2. To invite the Secretariat (ERS/RAC) to strengthen cooperation with the Focal Points, the MAP Coordinating Unit, RACs and other MAP components for the implementation of the approved programmes by developing activities supported by the use of remote sensing techniques in conjunction with other sources of data.
3. To invite the Secretariat (ERS/RAC) to further develop its activities relevant to the observation and assessment of the state and modification of forest and plant coverage in the whole Mediterranean region, as well as their relation with environmental changes, in liaison with other programmes such as the FAO Forest Action Plan.
4. To invite the Secretariat (ERS/RAC) to strengthen the use of remote sensing techniques in the implementation of the ongoing and future Coastal Areas Management Programmes (CAMPs), also promoting their integration in multi-disciplinary approaches.
5. To invite the Secretariat (ERS/RAC) to develop and propose the use of remote sensing techniques for the observation and study of eutrophication phenomena and of pollution from both marine and land-based sources, as well as for the assessment of pollutant dispersion in marine coastal areas; and to invite ERS/RAC to coordinate its activities with relevant IOC programmes as appropriate.
6. To invite the Secretariat (ERS/RAC) to promote the dissemination and exchange of information and activities relating to remote sensing data and applications among the Mediterranean countries and relevant operational Centres, with a view to developing and strengthening a remote sensing Mediterranean network.
7. To invite the Secretariat (ERS/RAC) to develop and propose appropriate methods for a sound understanding of the Mediterranean environment, by transferring knowledge of remote sensing applications through on-the-job training and capacity-building activities.
8. To invite the Secretariat (ERS/RAC) to take into account possible requests from Mediterranean countries relevant to the monitoring of environmental changes in a number of characteristic zones:
 - large urban centres and their suburbs;
 - coastal zones subject to pressure;
 - ecologically fragile sites;
 - zones exposed to desertification phenomena.

4. INFORMATION AND PARTICIPATION

1. To prepare relevant publications, brochures and reports presenting MAP activities and to disseminate them to decision-makers, scientists and administrators as well as the public at large.
2. To carry out activities related to the promotion of environmental awareness, exchange and dissemination of information, educational assistance and information on MAP activities through the strengthening of the library and library services of MEDU.
3. To enhance cooperation with environmental Mediterranean NGOs and encourage their active participation in MAP-related activities.
4. To recommend the inclusion of the following NGOs in the list of MAP Partners, as approved by the Ninth Ordinary Meeting of the Contracting Parties (Barcelona, 5-8 June 1995), "MAP Cooperation with Non-Governmental Organizations":
 - Israel Society for the Protection of Nature, Israel;
 - Ricerca e Cooperazione (RC), Italy;
 - Sustainability Challenge Foundation, Italy;
 - European Fertilizer Manufacturers Association (EFMA), Belgium;
 - International Marine Mammal Association (IMMA), Canada.

III. STRENGTHENING OF THE LEGAL FRAMEWORK (Chapter II of MAP II)

1. To ask the Executive Director of UNEP to convene a Conference of Plenipotentiaries for the adoption of the three annexes to the Protocol concerning Specially Protected Areas and Biological Diversity in the Mediterranean, to be preceded by a one-day meeting of government-designated experts.
2. To invite the Contracting Parties to notify to the Depositary, in writing, their acceptance of the amendments to the Convention for the Protection of the Mediterranean Sea against Pollution, the Protocol for the Prevention of Pollution of the Mediterranean Sea by Dumping from Ships and Aircraft (Dumping Protocol), and the Protocol for the Protection of the Mediterranean Sea against Pollution from Land-based Sources (LBS Protocol).
3. To invite the Contracting Parties that have not done so, to sign/ratify the Protocol concerning Specially Protected Areas and Biological Diversity in the Mediterranean

(SPA Protocol) and the Protocol for the Protection of the Mediterranean Sea against Pollution Resulting from Exploration and Exploitation of the Continental Shelf and the Seabed and its Subsoil (Offshore Protocol).

4. To invite the Contracting Parties to review their countries' position with respect to other pertinent international conventions, protocols and agreements and to ensure the early signature of those instruments which may have a positive influence on the Mediterranean Basin.

II. PROGRAMME BUDGET FOR 1997:

The Contracting Parties approve the following programme budget:

SUMMARY OF BUDGETARY ALLOCATIONS

	Approved Budget 1997 (,000 US\$)
I. INSTITUTIONAL AND FINANCIAL ARRANGEMENTS	
PROGRAMME COORDINATION	483
PERSONNEL AND OPERATING COSTS	
1. COORDINATING UNIT, Athens, Greece	
- Secretariat Personnel and Unit's Operating Costs	804
- MEDPOL Personnel	431
- Operating costs covered by the Greek Counterpart Contribution	400
2. MED POL COOPERATING AGENCIES	385
3. REGIONAL MARINE POLLUTION EMERGENCY RESPONSE CENTRE FOR THE MEDITERRANEAN (REMPEC)	552
4. BLUE PLAN REGIONAL ACTIVITY CENTRE (BP/RAC)	447
5. PRIORITY ACTIONS PROGRAMME REGIONAL ACTIVITY CENTRE (PAP/RAC)	328
6. SPECIALLY PROTECTED AREAS REGIONAL ACTIVITY CENTRE (SPA/RAC)	274
7. ENVIRONMENT REMOTE SENSING REGIONAL ACTIVITY CENTRE (ERS/RAC)	*
8. SECRETARIAT FOR THE CLEANER PRODUCTION REGIONAL ACTIVITY CENTRE (CP/RAC)	*
9. SECRETARIAT FOR THE 100 HISTORIC SITES	*
SUB-TOTAL	3,621
PROGRAMME SUPPORT COST**	727
TOTAL INSTITUTIONAL AND FINANCIAL ARRANGEMENTS	4,831

* Covered by the host country.

** Programme Support Cost of 13% applies to MTF expenditures.

		Approved Budget 1997 (,000 US\$)
II. SUSTAINABLE DEVELOPMENT IN THE MEDITERRANEAN		
SUPPORT TO THE MEDITERRANEAN COMMISSION ON SUSTAINABLE DEVELOPMENT		110
1. INTEGRATING ENVIRONMENT AND DEVELOPMENT		
1.1	Economic activities and the environment	85
1.2	Urban management and the environment	50
1.3	Sustainable management of natural resources	110
1.4	Integrated coastal area management	
	(a) Integrated Planning	31
	(b) Coastal Areas Management Programme (CAMP)	218*
1.5	Elements for a Mediterranean strategy (including MEDO)	
	(a) Observation and Systemic and Prospective Analysis of Environment and Development in the Mediterranean	65
	(b) Mediterranean Environment and Development Observatory (MEDO)	**
1.6	National and local capacity-building	20
SUB-TOTAL		689
2. CONSERVATION OF NATURE, LANDSCAPE AND SITES		
2.1	Collection of data and periodic assessment of the situation	15*
2.2	Legal measures (SPA Protocol)	20
2.3	Planning and management	20*
2.4	Exchange of experience and strengthening of national capabilities	**
SUB-TOTAL		55

* Additional funding is provided under the voluntary contribution of the European Community.

** Funded under the voluntary contribution of the European Community.

		Approved Budget 1997 (,000 US\$)
3.	ASSESSMENT, PREVENTION AND ELIMINATION OF MARINE POLLUTION	
3.1	Assessment of pollution-related problems	440
3.2	Pollution prevention	
(a)	Prevention and elimination of the pollution of the marine environment from land-based activities (LBS Protocol)	298
(b)	Prevention of and response to the pollution of the marine environment from sea-based activities	
(i)	Preparedness for, response to and cooperation in cases of accidental marine pollution (Emergency Protocol)	180
(ii)	Prevention of the pollution of the marine environment by dumping from ships and aircraft (Dumping Protocol)	10
(c)	Prevention and control of the pollution of the environment resulting from transboundary movements of hazardous wastes and their disposal (Hazardous Wastes Protocol)	30
3.3	Supporting measures	65
	SUB-TOTAL	1,023
4.	INFORMATION AND PARTICIPATION	145
TOTAL SUSTAINABLE DEVELOPMENT IN THE MEDITERRANEAN		1,912
III. STRENGTHENING OF THE LEGAL FRAMEWORK		
TOTAL STRENGTHENING OF THE LEGAL FRAMEWORK		30
GRAND TOTAL		6,773

**AGGREGATE BUDGET COVERING ACTIVITIES AND PERSONNEL AND OPERATING COSTS
FOR THE COORDINATING UNIT AND THE CENTRES:**

	Approved Budget 1997 (,000 US\$)
1. COORDINATING UNIT	
- Total Activities Coordinating Unit	831*
Personnel and Operating Costs:	
- Secretariat Personnel and Unit's Operating Costs	804
- Operating costs covered by the Greek Counterpart Contribution	400
- Total Personnel and Operating Costs	1,204
TOTAL	2,035
2. MED POL	
- Total Activities MED POL	963
Personnel and Operating Costs:	
- MED POL Personnel in the Coordinating Unit	431
- MED POL Cooperating Agencies Personnel and Operating Costs	385
- Total Personnel and Operating Costs	816
TOTAL	1,779
3. REGIONAL MARINE POLLUTION EMERGENCY RESPONSE CENTRE FOR THE MEDITERRANEAN (REMPEC)	
- Total Activities	180
- Total Personnel and Operating Costs	552
TOTAL	732
4. BLUE PLAN REGIONAL ACTIVITY CENTRE (BP/RAC)	
- Total Activities	135**
- Total Personnel and Operating Costs	447
TOTAL	582
5. PRIORITY ACTIONS PROGRAMME REGIONAL ACTIVITY CENTRE (PAP/RAC)	
- Total Activities	226**
- Total Personnel and Operating Costs	328
TOTAL	554

* Includes 98,000 US\$ for CAMPs part of which will be allocated to the relevant RACs and the Centre of Historic Towns and when required.

** Additional funding is provided under the voluntary contribution of the European Community.

	Approved Budget 1997 (,000 US\$)
6. SPECIALLY PROTECTED AREAS REGIONAL ACTIVITY CENTRE (SPA/RAC)	
- Total Activities	40*
- Total Personnel and Operating Costs	274
TOTAL	314
7. ENVIRONMENT REMOTE SENSING REGIONAL ACTIVITY CENTRE (ERS/RAC)	
- Total Activities	50
- Total Personnel and Operating Costs	**
TOTAL	50
8. CENTRE FOR THE CLEANER PRODUCTION REGIONAL ACTIVITY CENTRE (CP/RAC)	
- Total Activities	***
- Total Personnel and Operating Costs	**
TOTAL	-
9. CENTRE FOR THE 100 HISTORIC SITES	
- Total Activities	**
- Total Personnel and Operating Costs	**
TOTAL	-
PROGRAMME SUPPORT COSTS (13% OF MTF) ****	727
GRAND TOTAL	6,773

* Additional funding is provided under the voluntary contribution of the European Community.

** Covered by the host country.

*** 1997 activities for the CP/RAC are fully funded by the Spanish Government at an approximate cost of Pesetas 15.1 (around 118,557 US\$ at a rate of 126.5 PTA/US \$).

**** Programme Support Cost of 13% applies to MTF expenditures.

SOURCES OF FINANCING

The following scheme of sources of financing for the programme budget for 1997 through the ordinary contributions to the Mediterranean Trust Fund, the extraordinary contributions, the Greek counterpart contribution and the UNEP counterpart contribution is approved by the Contracting Parties:*

	1997 (in US\$)
A. Income	
MTF Contributions for 1997	4,560,546
Extraordinary Contributions	154,222
Greek Counterpart Contribution	400,000
UNEP Counterpart Contribution	50,000
Bank Interest (estimate)	100,000
Unpaid pledges as at 31 Dec. 1996 (estimate)	897,851
Estimated uncommitted funds as at 31 Dec. 1996 (including advance payments towards future pledges)**	2,011,209
Total Expected Income	8,173,828
B. Commitments	
Approved Commitments for 1997	6,773,000
Total Commitments	6,773,000
C. Provisions for revolving fund	1,400,828

* The activities funded by the voluntary contribution of the European Community are indicated separately on p 9.

** Includes US\$ 222,509 representing advance payments towards future pledges received from Greece during 1996.

Approved Contributions for 1997:

Contracting Parties	%	Ordinary Contributions to MTF for 1997 (in US \$)	Extraordinary Contributions for 1997 (in US \$)
Albania	0.07	3,192	108
Algeria	1.05	47,886	1,619
Bosnia and Herzegovina	0.30	13,682	463
Cyprus	0.14	6,385	216
Croatia	0.97	44,237	1,496
EC	2.50	114,014	- a/
Egypt	0.49	22,347	756
France	37.97	1,731,639	58,558 b/
Greece	2.81	128,151	4,334
Israel	1.47	67,040	2,267
Italy	31.37	1,430,643	48,379 c/
Lebanon	0.07	3,192	108
Libya	1.97	89,843	3,038
Malta	0.07	3,192	108
Monaco	0.07	3,192	108
Morocco	0.28	12,770	432
Slovenia	0.67	30,556	1,033
Spain	14.99	683,626	23,118 d/
Syria	0.28	12,770	432
Tunisia	0.21	9,577	324
Turkey	2.25	102,612	3,470
Total:	100.00	4,560,546	154,222
Host Country Contribution:		400,000	-
UNEP Environment Fund:		50,000	-
GRAND TOTAL		5,010,546	154,222

a/ The extraordinary contribution of the EC to cover MAP activities is included in its Voluntary Contribution (see page 8-9).

b/ Contribution for the funding of the Third Meeting of the Mediterranean Commission on Sustainable Development (see page 11).

c/ Contribution for the funding of the Meeting of experts for the development of elements of national action plans for the reduction and elimination of pollution from land-based sources and activities (see page 38).

d/ Contribution for the funding of the Second Meeting of the Mediterranean Commission on Sustainable Development (see page 11).

**Activities to be funded by the Voluntary
Contribution of the European Community:***

	Approved Budget 1997 (in US\$)
1.4 Integrated coastal area management	
(b) Coastal Areas Management Programme (CAMP)	
- Implementation of CAMP activities: assistance to local systematic and prospective analysis (BP)	53,749
- Implementation of CAMPs in Sfax/Tunisia, Algeria, Al-Hoceima/Morocco, Israel, Malta and Lebanon (PAP, MEDU)	193,316
SUB-TOTAL 1.4	247,065
1.5 Elements for a Mediterranean strategy	
(b) Mediterranean Environment and Development Observatory (MEDO)	
- Assistance to countries for preparation of a national environment and development Observatory (BP)	25,000
- Data collection and processing and organisation of the Mediterranean Environment and Development Information System (BP)	10,000
- Identification and elaboration of indicators: water, soil, wastes, urban, agriculture, etc.. (BP)	20,000
- Preparation for a report on the State of Development and Environment in the Mediterranean (BP)	10,000
SUB-TOTAL 1.5	65,000
2.1 Collection of data and periodic assessment of the situation	
- Collection of data and assistance to countries for the preparation of inventories of species and sites of special interest (SPA)	60,000
SUB-TOTAL 2.1	60,000

* The total of the ordinary contribution and the voluntary contribution of the European Community to the Mediterranean Trust Fund amounts to US\$ 670,047.

Approved
Budget 1997
(in US\$)

1.4 Integrated coastal area management

(b) Coastal Areas Management Programme (CAMP)

2.3 Planning and management

- | | |
|---|--------|
| - Implementation of the Action Plan for the conservation of the Mediterranean Marine Turtles (SPA) | 15,000 |
| - Implementation of the Action Plan for the management of the Monk Seals (SPA) | 15,000 |
| - Implementation of the Action Plan for the conservation of Cetaceans in the Mediterranean Sea (SPA) | 15,000 |
| - Assistance to countries for the improvement of the management of SPA (particularly as regards the development and control of public access to SPAs) (SPA) | 25,000 |

SUB-TOTAL 2.3 70,000

2.4 Exchange of experience and strengthening of national capabilities

- | | |
|--|--------|
| - Training sessions on the scientific and technical aspects of the conservation of the natural common heritage (SPA) | 50,000 |
|--|--------|

SUB-TOTAL 2.4 50,000

TOTAL 492,065

Programme Support Costs (13%) 63,968

GRAND TOTAL 556,033

TOTAL VOLUNTARY CONTRIBUTION OF THE EUROPEAN COMMUNITY: 556,033

**Expected Counterpart Contributions in Cash/Kind to MAP
Projects from Contracting Parties and U.N. Agencies:**

Countries	1997 (,000 US \$)
Croatia PAP/RAC	150
Italy ERS/RAC	300
Malta REMPEC	75
Spain CP/RAC	118.5
Tunisia SPA/RAC	70
U.N. Agencies	
WHO MED POL	100
WMO MED POL	50
IAEA MED POL	300
UNESCO/IOC MED POL	95

	1997 (,000 ECU)
France	
BP/RAC	350*
Centre of 100 Historic Sites (Ville de Marseille)	83

* The French Government will provide a contribution to ensure the proper functioning of the Centre. During 1997, contribution will be equivalent to US \$ 440,000 (or 350,000 ECU as per April 1996 rate), corresponding to:

- The salaries of the Director, of an Expert and the cost of larger premises for a total amount equivalent to US 220,000.
- An amount of US \$ 220,000 to cover the salary of a Secretary as well as part of the operating cost of the Ce

PROGRAMME COORDINATION

Objectives

To prepare the work programme and budget for the Mediterranean Action Plan for review by the meetings of the Bureau, the subsidiary bodies and for review and approval by the ordinary meetings of the Contracting Parties. To coordinate MAP activities with participating UN Agencies, intergovernmental and non-governmental organizations, and MAP Regional Activity Centres and to manage the Mediterranean Trust Fund.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
- 10th Ordinary Meeting of the Contracting Parties to review and approve the 1998-99 programme budget (MEDU)	215
- Meeting of the MAP National Focal Points to consider the progress of the Action Plan and prepare the 1998-99 programme budget (MEDU)	115
- Second Meeting of the Mediterranean Commission on Sustainable Development (MEDU)	23*
- Third Meeting of the Mediterranean Commission on Sustainable Development (MEDU)	58**
- Meetings of the Bureau (two per year) to review the progress of the Action Plan, advise the Secretariat on matters arisen since the meeting of Contracting Parties, and decide on programme/budget adjustments (MEDU)	42
- Meeting of the Regional Activity Centres' Directors and the Coordinating Unit for programming and coordination of MAP activities (MEDU)	10***
- Training of national officials at MED Unit on MAP programmes and procedures (direct support to 2 countries, 4 participants) (MEDU)	5
- Consultation on the preparation of reporting formats for national reports (MEDU)	15
TOTAL ACTIVITIES	483

* Funded through the Extraordinary Contribution of the Government of Spain. The Spanish authorities will also all additional expenses for this meeting.

** Funded through the Extraordinary Contribution of the Government of France. The French authorities will also cover additional expenses for this meeting.

*** Amount to cover cost of translation and interpretation. Travel cost included under the relevant Regional Activity Centres.

MAP PERSONNEL AND OPERATING COSTS:

1. COORDINATING UNIT, Athens, Greece

The revised structure of the personnel at the Coordinating Unit are reflected in the budget.

The increase of post adjustment for Athens for the Professional Staff that occurred in December 1995 (from 28.6% to 34.9%) has required an increase of salaries in 1997 compared to 1996. The post adjustment is calculated independently of UNEP by the International Civil Service Commission and reflects the increase of the cost of living in the Duty Station. However, the figures indicated for 1997 are estimates and a further increase of the post adjustment is not excluded. The level of increase of allocation for the post of Deputy Coordinator is less than the other post as it is expected that the recruitment of a new incumbent will be made at a lower step level.

For Administrative Support there has been a readjustment of the salaries (+ 5.84%) that takes into account the recent increase of salaries through the interim salary survey undertaken by the Compensation and Classification Service of UN Headquarters in New York. The figures indicated are indeed estimates and another salary survey is forecast during the second half of 1996 that might result in an even higher increase of salaries, as the survey takes into account such parameters as the level of income tax. The allocation for overtime and temporary assistance however remain at the same level in 1997 as for 1996.

The funds for Travel on Official Business include the travel allocation previously attributed to FAO, due to the closing of the FAO post.

An increase in the Rental cost of MEDU premises of 8.1% has already occurred at the beginning of the year. The figures indicated for 1997 show an estimated increase of 11.9% over 1996 that takes into account the trends observed at the Duty Station. However, it is necessary to underline the favourable conditions provided by the Host Country as the cost of the rent is presently much below the value prevailing in the market in Athens.

The Office Cost includes such costs as the cost of reproduction, telephone and postage. A substantial increase in these costs has occurred in 1996; for postage, for instance, the range of the increase is from 11% for airmail postage to 68% for printed matter in 1996 and for reproduction costs the increase in 1996 is already 8%.

Also included under the budget for office costs are the allocation for non-expendable equipment and the maintenance of the premises. As announced by the Coordinator during the last Joint Committee Meeting held in Athens in 1995, there is an urgent need to replace or upgrade office facilities. In order to catch up with the telecommunications facilities in Greece it will be necessary to replace the obsolete switchboard. An investment of at least US \$20,000 is necessary to this effect. An additional US \$10,000 will also be necessary to replace some equipment and furniture that have not been changed for fifteen years.

COORDINATING UNIT, Athens, Greece

	m/m	Approved Budget 1997 (,000 US \$)	
		MTF	Greek Counterpart Contribution
Professional Staff			
- Coordinator - D.1/D.2	12	122	
- Deputy Coordinator - D.1	12	116	
- Senior Programme Officer/ Economist - P.5	12	115	
- Fund Management/Admin. Officer - P.3	12	1	
- MEDPOL Coordinator - P.5	6	55	
- MEDPOL Senior Programme Officer - P.5	12	115	
- MEDPOL First Officer/ Marine Scientist - P.4	12	89	
- Computer Operations Officer - P.4	12	88	
Total Professional Staff		700	
Administrative Support			
- Information Assistant - G.6/G.7	12	34	
- Administrative Assistant - G.6/G.7	12	1	
- Senior Secretary - G.5	12	29	
- Administrative Clerk - G.4	12	1	
- Data Processing Assistant - G.5	12	1	
- Research Assistant - G.4/G.5	12	29	
- Senior Secretary - G.4	12	1	
- Senior Secretary - G.4	12	28	
- Senior Secretary - G.3/G.4	12	28	
- Senior Secretary (MEDPOL) - G.4	12	28	
- Senior Secretary (MEDPOL) - G.4	12	28	
- Senior Secretary (MEDPOL) - G.3/G.4	12	28	
- Telecommunication Clerk - G.3	12	26	
- Clerk/Driver - G.3	12	25	
- Office Clerk/Typist - G.3	12	24	

(1) Paid under Programme Support Costs.

	m/m	Approved Budget 1997 (,000 US \$)	
		MTF	Greek Counterpart Contribution
- Clerk - G.1/G.2	12	19	
- Temporary Assistance		30	
- Overtime		19	
Total Administrative support		375	
Travel on Official Business		106	
Office Costs			
- Rental		-	122 ⁽¹⁾
- Other Office Costs (including sundry)		54	278
Total Office costs		54	400
TOTAL PERSONNEL AND OPERATING COSTS		1,235	400

⁽¹⁾ In the case of a change in the location of premises, the adjustment of the budget, due to the change in cost, to be approved by the Bureau.

2. MED POL COOPERATING AGENCIES

The budget reflects the revised structure referred to in the recommendations with the suppression of the FAO posts (Senior Fishery Officer and FAO Secretary), and the suppression of the IAEA Maintenance Engineer during the second half of 1997.

	m/m	Approved Budget 1997 (,000 US \$)
Professional Staff		
- WHO Programme Officer/Senior Scientist, MAP Coordinating Unit (Athens) - P.5	12	110
- IAEA Maintenance Engineer (MEL) (Monaco) - P.3	6	95 ⁽¹⁾
Total Professional Staff		205
Administrative Support		
- WHO Secretary - MAP Coordinating Unit (Athens) - G.5	12	29
- IAEA Laboratory Assistant - MEL (Monaco) - G.6	12	55
- WHO Temporary Assistance - (Athens)	6	15
- WMO Temporary Assistance - WMO/HQ (Geneva)		13
- IOC Temporary Assistance - IOC/HQ (Paris)		13
Total Administrative Support		125
Travel on Official Business		
- WHO (Athens)		16
- WMO (Geneva)		10
- IAEA (Monaco)		20 ⁽²⁾
- IOC of UNESCO (Paris)		9
Total Travel		55
Office costs		⁽³⁾
TOTAL PERSONNEL AND OPERATING COSTS		385

⁽¹⁾ The post of IAEA Maintenance Engineer will be terminated in 1997. Estimated cost includes cost of separation (repatriation grant, travel, annual leave, etc.).

⁽²⁾ To be used for field missions for the Data Quality Assurance Programme.

⁽³⁾ Office costs incurred by WHO staff stationed in the Coordinating Unit in Athens are covered by MED Unit office. Office costs incurred by all Agencies at their own Headquarters or Regional Offices are covered by the respective agencies as part of their counterpart contributions.

3. REGIONAL MARINE POLLUTION EMERGENCY RESPONSE CENTRE FOR THE MEDITERRANEAN (REMPEC) Valletta, Malta

Cooperating Agency IMO

	m/m	Approved Budget 1997 (,000 US \$)
Professional Staff		
- Director - D.1	12	128
- Technical Expert - P.4	12	112
- Chemist - P.4	12	102
Total Professional Staff		342
Administrative Support		
- Information Assistant - G.6	12	20
- Senior Secretary/Admin. Assistant - G.6	12	20
- Clerk Secretary - G.4	12	17
- Clerk/Secretary - G.4	12	17
- Caretaker/Docs Reproducer - G.3	12	16
Total Administrative Support		90
Travel on Official Business		35
Office costs		85
TOTAL PERSONNEL AND OPERATING COSTS		552

4. BLUE PLAN REGIONAL ACTIVITY CENTRE (BP/RAC)**Sofia Antipolis, France**

The increase in running costs has been kept to a minimum level (less than 4% compared to 1996). This should cover part of the step increase for staff. The allocation for travel has been increased by US\$ 10,000 in order to meet the request for additional field missions, particularly for CAMPs. The increase of the Deputy Director budget reflects the real cost (which still needs to be supplemented) of participation in MAP activities. These increases are compensated by a decrease of \$5,000 on office costs, charged to external sources.

	m/m	Approved Budget 1997 (,000 US \$)
Professional Staff		
- Chairman	12	
- Director	12	(1)
- Deputy Director/Observatory Coordinator	12	100 (2)
- Scientific Expert - Prospective	12	72
- Computer Officer	12	42 (2)
- Environmental Statistics Expert	12	(3)
- Specialist Document Officer	12	(3)
- Specialist in Map Data Processing	12	(3)
- Administrative and Financial Officer	12	47 (2)
Total Experts/Professional Staff		261
Administrative Support		
- Data Collection Assistant/Senior Secretary	12	43
- Bilingual Secretary	12	43
- Secretary	12	(4)
- Temporary Assistance		20
Total Administrative Support		106
Travel on Official Business		30
Office costs		50 (2)
TOTAL PERSONNEL AND OPERATING COSTS		447

(1) Seconded by the French Government.

(2) Supplemented by the French Government.

(3) Covered by other sources (METAP, EC) to be confirmed.

(4) Covered by the French Government.

5. PRIORITY ACTIONS PROGRAMME REGIONAL ACTIVITY CENTRE (PAP/RAC)**Split, Croatia**

The increase in office and personnel costs is due to: (a) the increase of general labour costs (social charges and taxes, in particular) and the resulting need to harmonize the resources with the conditions prevailing in the host country (a considerable increase of salaries in the public sector); and (b) unfavourable rates of exchange which continue to affect personnel salaries and operating costs.

	m/m	Approved Budget 1997 (,000 US \$)
Professional Staff		
- Director	12	44
- Deputy Director	12	32
Total Professional Staff		76
Administrative Support		
- Senior Assistant to Projects/Translator	12	23
- Assistant to Projects/Translator	12	22
- Assistant to Projects/Translator	12	22
- Assistant to Projects/Translator	12	22
- Administrative Assistant	12	22
- Financial Assistant	12	22
- Temporary Assistance		9
Total Administrative Support		142
Travel on Official Business		27
Office costs		83
TOTAL PERSONNEL AND OPERATING COSTS		328

6. SPECIALLY PROTECTED AREAS REGIONAL ACTIVITY CENTRE (SPA/RAC)

Tunis, Tunisia

	m/m	Approved Budget 1997 (,000 US \$)
Professional Staff		
- Director	12	33 ₁
- Expert	12	16.5 ₁
- Expert	12	62.5
- Data Researcher	12	44
Total Professional Staff		156
Administrative Support		
- Administrative Assistant	12	14
- Bilingual Secretary	12	12
- Driver	12	6.5
- Finance Officer	12	- ₂
- Cleaner	12	- ₂
- Caretaker	12	- ₂
Total Administrative Support		32.5
Travel on Official Business		25
Office costs		60.5
TOTAL PERSONNEL AND OPERATING COSTS		274

(1) Represents funds allocated to supplement the salary paid by the Host Country.

(2) Paid by the Host Country.

7. ENVIRONMENT REMOTE SENSING REGIONAL ACTIVITY CENTRE (ERS/RAC)

Palermo, Italy

	Approved Budget 1997 (,000 US \$)
TOTAL PERSONNEL AND OPERATING COSTS	*

* Personnel and Operating Costs are fully funded under the counterpart contribution of the Government of Italy for ERS/RAC.

8. CLEANER PRODUCTION REGIONAL ACTIVITY CENTRE (CP/RAC)
Barcelona, Spain

	Approved Budget 1997 (,000 US \$)
TOTAL PERSONNEL AND OPERATING COSTS	*

* Personnel and Operating Costs are fully funded by the Spanish Government.

9. SECRETARIAT FOR THE 100 HISTORIC SITES

Marseilles, France

	Approved Budget 1997 (,000 US \$)
TOTAL PERSONNEL AND OPERATING COSTS	*

* Personnel and Operating Costs are fully funded under the counterpart contribution of the Municipality of Marseilles.

II. SUSTAINABLE DEVELOPMENT IN THE MEDITERRANEAN

**SUPPORT TO THE MEDITERRANEAN COMMISSION ON
SUSTAINABLE DEVELOPMENT**

Objectives

To support the activities of the Mediterranean Commission on Sustainable Development which is expected to meet in December 1996 and make proposals for studies. It is proposed that the studies will be mainly undertaken by BP/RAC and PAP/RAC.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
- Coastal planning and management/socio-economic analysis	110
TOTAL ACTIVITIES	110

1. INTEGRATING ENVIRONMENT AND DEVELOPMENT

1.1 Economic activities and the environmentObjectives

To study the agriculture production system, inputs and practices, and identify the impacts on major environment components, mainly water and soil.

To implement activities relevant to the implementation of the LBS Protocol with respect to industry and industrial pollution.

To secure sustainable development of tourism in the region through capacity-building for determining the capacity-building of sustainable tourism.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
Agriculture - Mediterranean Agro-Systems and Impact on Environment (BP)	10
Industry <u>LBS Protocol</u> - Application of the LBS Protocol (collection of information, implementation of common measures, preparation and implementation of action plans, capacity-building (MEDPOL)	60
<u>Cleaner Production in the Mediterranean</u> - Second National Focal Points Meeting and Second Experts Meeting	*
Tourism - National training course on the application of environmentally sound approach to planning and development of tourism activities using the Guidelines for carrying capacity for tourism (PAP)	15
TOTAL ACTIVITIES	85

* To be fully funded by the Spanish authorities.

1.2 Urban management and the environment

Objectives

To study past, present and future interactions between urban and rural developments, as well as their impact on environment components, and to identify major parameters to monitor and evaluate their evolutions.

To contribute to the implementation of the concept of sustainable cities in the Mediterranean region, and especially to study the problems of urban infrastructure systems.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
- Urbanization, Rural Development and the Environment in the Mediterranean: Status and perspectives (BP)	20
- Training course on Urban Solid Waste Management (French) (PAP)	30
TOTAL ACTIVITIES	50

1.3 Sustainable management of natural resources

Objectives

To identify major water management actors, study their strategies and identify relevant indicators to follow, evaluate and (re-)orient their actions towards a sustainable use of water.

To study the major use policies and their impact on soil erosion, quality and availability.

To develop the system of integrated water resources management in the region through capacity-building for water managers, and especially, to develop the management systems in urban and arid areas focusing on the conservation of water resources.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
Water resources	
- Preparation of Guidelines for Coastal Urban Master Water Planning (PAP)	18
- Expert meeting to revise and adopt the Guidelines for Coastal Urban Master Water Planning (PAP)	10
- Training Course on Integrated Development, Management and Use of Coastal Water Resources (French) (PAP)	20
Soil	
- Reports on measurement of soil erosion phenomena in selected pilot sites in Turkey, Tunisia and Spain, and final editing of draft Guidelines on Mapping and Measurement of Soil Erosion Processes (PAP)	12
- Regional Training Course on consolidated methodology of mapping of soil erosion phenomena, with the participation of FAO (PAP)	30
Living marine resources	
- Expert Group meeting to promote coordination of the ongoing research on ecologically sound integrated management of mollusc culture (PAP)	10*
- Training course on the environmentally sound siting of aquaculture, including the utilization of GIS (15 participants) (PAP)	10*
TOTAL ACTIVITIES	110

* Additional funding to be sought.

1.4 Integrated coastal area management

(a) Integrated Planning

Objectives

To assist coastal States in the formulation, approval and implementation of coastal management policies; to contribute to the strengthening of capabilities of local and national institutions, authorities and experts for the implementation of the integrated coastal and marine areas management (ICAM) process; and to assist in the resolution of concrete environmental problems in coastal areas.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
- Identification of the directions of future development and implementation of ICAM in the Mediterranean - expert meeting (PAP)	10
- National Training Course on the Application of Guidelines for ICAM (PAP)	11
- National Training Course on the Application of GIS in ICAM (PAP)	10
TOTAL ACTIVITIES	31

1.4 Integrated coastal area management

(b) Coastal Areas Management Programme (CAMP)

Objectives

To integrate environmental/development and resource management policies in Coastal Areas Management Programmes proposed and accepted by the Contracting Parties. Such integrated management programmes should include, as appropriate, findings and know-how of all components of MAP Phase II, such as development and sustainable management of natural resources of coastal zones.

To ensure coastal protection through legal means and to promote the exchange of expertise concerning policies and strategies for coastal protection.

This programme includes six ongoing CAMP projects in different stages of implementation, namely: Sfax/Tunisia, Algeria, Al-Hoceima/Morocco, Israel, Malta and Lebanon.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
- Identification of pollution "hot spots"; assistance for monitoring programmes (levels and compliance) (MEDPOL)	40*
- Implications of climate change studies (MEDPOL)	20
- Implementation of CAMP activities: assistance to local systematic and prospective analysis (BP)	**
- Planning and implementation of the activities for the Malta/Morocco/Israel CAMPs - Technical assistance to local counterparts, consultations, meetings, training (ERS)	30
- Implementation of CAMPs in Sfax/Tunisia, Algeria, Al-Hoceima/Morocco, Israel, Malta and Lebanon (PAP)	**
- Experts, consultants to assist countries participating in CAMPs (MEDU, REMPEC, SPA, HIST)	98
- Consultation meetings relevant to each CAMP project (MEDU)	30
TOTAL ACTIVITIES	218

* Additional funding to be sought.

** Funded under the voluntary contribution of the EC.

1.5 Elements for a Mediterranean strategy

Objectives

To provide the development and environment public and private actors, including the Mediterranean Commission on Sustainable Development, with necessary information, pertinent analysis and evaluation, and relevant methods and tools including the use of remote sensing as a major input to their decision-making process towards sustainable development in the Mediterranean region. Systemic and prospective approaches will be applied at regional, national and coastal levels. Through the Mediterranean Environment and Development Observatory, indicators will be identified and elaborated, institutional knowledge will be improved and national observatories will be promoted. Related capacity-building assistance will be extended to Mediterranean partners.

(a) Observation and Systemic and Prospective Analysis of Environment and Development in the Mediterranean

ACTIVITIES	Approved Budget 1997 (,000 US \$)
- Preparation and publication of 2 country profiles (BP)	25*
- Systemic and prospective tools for coastal management (BP)	10
- Workshop on identification, elaboration and use of environmental statistics and indicators (BP)	20
- Preparation and publication of a fascicle (BP)	10
TOTAL ACTIVITIES	65

* Additional funding to be sought.

1.5 Elements for a Mediterranean strategy

(b) Mediterranean Environment and Development Observatory (MEDO)

ACTIVITIES	Approved Budget 1997 (,000 US \$)
- Assistance to countries for preparation of a national environment and development Observatory (BP)	*
- Data collection and processing and organisation of the Mediterranean Environment and Development Information System (BP)	*
- Identification and elaboration of indicators: water, soil, wastes, urban, agriculture, etc.. (BP)	*
- Preparation for a report on the State of Development and Environment in the Mediterranean (BP)	*
TOTAL ACTIVITIES	*

* Funded under the voluntary contribution of the EC.

1.6 National and local capacity-building*Objectives

To assist developing countries through capacity-building activities in the use of remote sensing for the monitoring of the state and the dynamic evolution of the coastal zone environment.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
- On-the-job training in remote sensing techniques and applications and technical assistance to countries (mainly on monitoring of vegetation , monitoring of coastline changes, assessment of natural resources and land suitability, study of sea dynamics in coastal areas) (ERS)	20
TOTAL ACTIVITIES	20

- * Other capacity-building activities of a more specific nature, such as training courses and direct assistance to countries, are found under each component.

2. CONSERVATION OF NATURE, LANDSCAPE AND SITES

2.1 Collection of data and periodic assessment of the situationObjectives

Assessment of the status and, where possible, the evolution of biological diversity in the Mediterranean, with a view to identifying appropriate measures for its conservation.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
- Collection of data and assistance to countries for the preparation of inventories of species and sites of special interest (SPA)	*
- Meeting of Experts on <i>Caulerpa</i> (MEDU)	15**
TOTAL ACTIVITIES	15

* Funded under the voluntary contribution of the EC.

** Additional funding to be sought.

2.2 Legal measures (SPA Protocol)

Objectives

The establishment of adequate legislation for the effective protection and management of the natural and cultural heritage of the Mediterranean region, in particular through the effective implementation of the new SPA Protocol.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
- Analytical study on national legislation related to the conservation of biodiversity and the implementation of the new SPA Protocol (SPA)	20
TOTAL ACTIVITIES	20

2.3 Planning and management

Objectives

The establishment of effective forms of management of the natural and cultural heritage, in order to ensure its conservation and to promote its social and economic aspects.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
- Implementation of the Action Plan for the conservation of the Mediterranean Marine Turtles (SPA)	*
- Implementation of the Action Plan for the management of the Monk Seals (SPA)	*
- Implementation of the Action Plan for the conservation of Cetaceans in the Mediterranean Sea (SPA)	*
- Assistance to countries in the field of biodiversity conservation (SPA)	20
- Assistance to countries for the improvement of the management of SPA (particularly as regards the development and control of public access to SPAs) (SPA)	*
TOTAL ACTIVITIES	20

* Funded under the voluntary contribution of the EC.

2.4 Exchange of experience and strengthening of national capabilities

Objectives

The improvement of the institutional capabilities of the Mediterranean countries in the field of conservation and management of the natural and cultural heritage.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
- Training sessions on the scientific and technical aspects of the conservation of the natural common heritage (SPA)	*
TOTAL ACTIVITIES	-

* Funded under the voluntary contribution of the EC.

3. ASSESSMENT, PREVENTION AND ELIMINATION OF MARINE POLLUTION

3.1 Assessment of pollution-related problems

Objectives

Assessment of the levels and trends of loads of pollutants reaching the Mediterranean Sea.

Assessment of the levels and trends of pollutants and their potentially harmful effects on marine life , fisheries and human health.

Assistance to Contracting Parties in establishing/improving national monitoring programmes.

Provision of information about general and specific pollution-related problems and potential threats to the Mediterranean region.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
<u>Assessment</u>	
- Identification of sources and assessment of loads of pollution (MEDPOL)	30
- Monitoring of trends in the levels and effects of pollution (MEDPOL)	30*
- Preparation of documents on loads, levels, trends and effects of pollution (MEDPOL)	30
<u>Assistance</u>	
- Assistance to Contracting Parties to establish/improve national monitoring programmes through capacity-building, training and data quality assurance (MEDPOL)	120
- Assistance to MED POL participating institutes for target oriented research, in particular eutrophication and biological effects (MEDPOL)	120
- Assistance to countries to develop procedures for legal provisions for maximum permissible levels in seafood (MEDPOL)	25
- Experts for review and evaluation of MED POL activities	20
<u>Training and fellowships</u>	
- On-job training of participants in MED POL monitoring programmes and fellowships to present MED POL research and monitoring data (MEDPOL)	40
<u>Meetings</u>	
- Review meeting on the results of the pilot programme for biological effects monitoring (MEDPOL)	25
- Planning workshop on baseline surveys of open Mediterranean waters (MEDPOL)	**
TOTAL ACTIVITIES	440

* An additional contribution of 20,000 USD will be provided by WHO.

** A contribution of 15,000 USD will be provided by IOC. Additional funds may be sought from other sources.

3.2 Pollution prevention

- (a) Prevention and elimination of the pollution of the marine environment from land-based activities (LBS Protocol)

Objectives

Identification of major pollution "hot spots" in the Mediterranean, development and implementation of action plans (including economic aspects with timetables) for reduction and elimination of major "hot spots".

Development and implementation of concrete pollution control measures required by the Barcelona Convention, its protocols and decisions and recommendations of the Contracting Parties.

Formulation, adoption and implementation of the regional action plan and development and implementation of national action plans for reduction and elimination of pollution from land-based sources and activities.

Assistance to Contracting Parties in establishing compliance monitoring programmes.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
<u>Action Plans</u> - Identification of major pollution "hot spots";preparation and implementation of action plans (including economic aspects with timetables) for reduction and elimination of pollution at major "hot spots" (MEDPOL)	30*
- Formulation, adoption and implementation of regional action plan for reduction and elimination of pollution from land-based sources and activities (MEDPOL)	30*
<u>Assistance</u> - Assistance to Contracting Parties for the development and implementation of national action plans for reduction and elimination of pollution from land-based sources and activities (MEDPOL)	40
- Assistance to Contracting Parties for the implementation and enforcement of adopted pollution control measures (MEDPOL)	30
- Assistance to Contracting Parties for establishment of national compliance monitoring programmes (MEDPOL)	40**
<u>Training</u> - Training of national staff in relation to strengthening the system of environmental inspection (MEDPOL)	20*
<u>Meetings</u> - Meeting of the National Coordinators for MED POL (MEDPOL)	60

* Additional funding to be sought.

** An additional contribution of 20,000 USD will be provided by WHO.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
- Inter-Agency Advisory Committee (IAAC) meeting to coordinate activities on MED POL with UN Agencies (MEDPOL)	*
- One meeting of experts for the development of elements of national action plans for the reduction and elimination of pollution from land-based sources and activities (MEDPOL)	48**
TOTAL ACTIVITIES	298

* Travel cost included in MED POL Cooperating Agencies.

** Funded through the Extraordinary Contribution of the Government of Italy. The Italian authorities will also cover all additional expenses for this meeting.

3.2 Pollution prevention

- (b) Prevention of and response to the pollution of the marine environment from sea-based activities
- (i) Preparedness for, response to and cooperation in cases of accidental marine pollution (Emergency Protocol)

Objectives

To strengthen the capacities of the coastal states in the Mediterranean and to facilitate cooperation among them in order to intervene in case of emergencies and accidents causing or likely to cause pollution of the sea by oil and other harmful substances especially in case of emergency in which there is grave and imminent danger to the marine environment or when it can affect human lives.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
- Assistance to States in developing their national system for preparedness and response (REMPEC)	10
- Assistance to States which so request for the preparation and development of agreements amongst neighbouring coastal States (REMPEC)	6
- Assistance to States in developing port emergency response system (REMPEC)	8
- Adaptation of predicting models and decision support system to the region (REMPEC)	6
- Regional training course on preparedness and response to accidental marine pollution (REMPEC)	74
- Workshop on Crisis Management (REMPEC)	60
- Technical assistance to States in the organisation of national training courses (REMPEC)	8
- Assistance to States in case of emergency (Mediterranean Assistance Unit) (REMPEC)	8
TOTAL ACTIVITIES	180

3.2 Pollution prevention

- (b) Prevention of and response to the pollution of the marine environment from sea-based activities
 - (ii) Prevention of the pollution of the marine environment by dumping from ships and aircraft (Dumping Protocol)

Objectives

Prevention and abatement of pollution of the Mediterranean Sea Area caused by dumping from ships and aircraft.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
- Collection of information on issuance of permits and dumping activities and assessment of the implementation of dumping protocol (MEDPOL)	10
- Second Meeting of government-designated Experts for the Preparation of Guidelines for the Management of Dredged Material (MEDPOL)	*
TOTAL ACTIVITIES	10

* Funding to be sought.

3.2 Pollution prevention

- (c) Prevention and control of the pollution of the environment resulting from transboundary movements of hazardous wastes and their disposal

Objectives

To provide Contracting Parties with the necessary assistance related to the implementation of the Protocol on the Prevention and Control of the Pollution of the Environment resulting from Transboundary Movements of Hazardous Wastes.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
<u>Regional Activities</u> - Assistance to Contracting Parties in carrying out the appropriate preparatory actions (technical and legal) related to the implementation of the Protocol on the Prevention and Control of the Pollution of the Environment resulting from Transboundary Movements of Hazardous Wastes (development of guidelines, rules and procedures for liability and compensation, legal and administrative measures related to the prohibition of export and transit of hazardous wastes) (MEDPOL)	30
TOTAL ACTIVITIES	30

3.3 Supporting measures

Objectives

Building of the institutional capabilities of the Contracting Parties for the assessment and elimination of marine pollution.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
- Formulation and implementation of data quality assurance programmes (MEDPOL)	40
- Purchase of standards and reference material (MEDPOL)	25
TOTAL ACTIVITIES	65

4. INFORMATION AND PARTICIPATION

Objectives

To strengthen public awareness of the protection and enhancement of the Mediterranean environment, to strengthen cooperation with appropriate NGOs, and to inform Mediterranean decision-makers, scientists, administrators as well as the public at large on MAP activities.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
- Publication and dissemination of MAP Technical Reports (MEDU)	15
- Library services (environmental awareness and educational assistance); Librarian (Consultant); Exchange/dissemination of information and reports (MEDU)	20
- Preparation and translation of MAP Newsletter MEDWAVES (Arabic, English and French) (MEDU)	15
- Printing and dissemination of MEDWAVES (MEDU)	25
- Support to public awareness national campaigns on the Mediterranean, the conservation of the coastline, scarce water, etc. (support to NGOs, training, competitions, youth campaigns, etc.) (MEDU)	20
- Preparation, editing and translation of MAP brochures and reports (MEDU)	30
- Printing and dissemination of brochures and reports, including the use of the Internet (MEDU)	20
TOTAL ACTIVITIES	145

III. STRENGTHENING OF THE LEGAL FRAMEWORKObjectives

To seek the early entry into force of the new MAP legal instruments and to promote their early implementation by the Contracting Parties.

To formulate and adopt appropriate rules and procedures for the determination of liability and compensation for damages resulting from the pollution of the marine environment.

To promote the adoption of relevant national legislation and to ensure the compliance of the Contracting Parties to the provisions of the Barcelona Convention and its protocols.

ACTIVITIES	Approved Budget 1997 (,000 US \$)
- Legal assistance to the Secretariat (MEDU)	15
- Assistance to countries to develop their national legislation in line with the objectives of MAP II (MEDU)	15
TOTAL ACTIVITIES	30

ANNEX IV

APPENDIX

MED POL-Phase III

**PROGRAMME FOR THE ASSESSMENT AND CONTROL OF POLLUTION
IN THE MEDITERRANEAN REGION**

(1996-2005)

Table of Contents

	Pages
PREFACE	ii
1. BACKGROUND	1
2. INTRODUCTION	3
3. OBJECTIVES OF MED POL-PHASE III (1996-2005)	7
4. MODALITIES OF COOPERATION BETWEEN THE CONTRACTING PARTIES AND THE SECRETARIAT REGARDING MED POL	11
5. ASSESSMENT OF POLLUTION-RELATED PROBLEMS	14
6. POLLUTION CONTROL	17
A. Development and implementation of pollution control measures	17
B. Compliance control	19
7. SUPPORTING MEASURES	23
A. Assistance (capacity building)	23
B. Data and information management	25
C. Coordination and cooperation	26
8. IMMEDIATE PRIORITIES FOR THE IMPLEMENTATION OF MED POL-PHASE III	28
ANNEX: Monitoring of the levels and effects of contaminants in the context of MED POL-Phase III	30

PREFACE

In 1992, the Bureau of the Contracting Parties asked the Secretariat to organize the preparation of an in-depth evaluation of the MED POL Programme by scientists/experts external to the MAP Office with a view of using this evaluation in the drafting of the Phase III of MED POL. Five consultants worked during 1993 and an evaluation was prepared and presented to the Eighth Ordinary Meeting of the Contracting Parties in October 1993 (UNEP(OCA)/MED IG.3/Inf.6). During the latter Meeting the Contracting Parties also formally agreed that a Phase III of MED POL should be prepared covering the period from 1996 to 2005 and, to this effect, they set a number of basic objectives and principles which should be used for its preparation (UNEP(OCA)/MED IG.3/5, Annex IV).

The meeting of experts on the preparation of MED POL-Phase III was held in Izmir from 20 to 23 June 1994 with the partial financial support of the Government of Turkey. Twenty experts from the Mediterranean and elsewhere attended the meeting, together with representatives of United Nations agencies and international organizations (UNEP(OCA)/MED WG.75/3). The meeting, after reviewing and discussing the achievements and shortcomings of Phases I and II of the MED POL Programme, prepared a draft MED POL-Phase III Programme, which was submitted for approval to the Joint Meeting of the Scientific and Technical Committee and the Socio-Economic Committee (Athens, 3-8 April 1995). Due to lack of time, this document was not considered by the Joint Meeting and delegations were requested to provide comments to the Secretariat in writing. After reviewing the comments received and taking into account the results of the informal consultation meeting on MED POL-Phase III (Athens, 13-15 December 1995), the document was revised to bring it in line with the Action Plan for the Protection of the Marine Environment and the Sustainable Development of the Coastal Areas of the Mediterranean (MAP-Phase II), approved by the Contracting Parties in June 1995. Finally, the revised document was first submitted to the Meeting of the MED POL National Coordinators (Athens, 18-22 March 1996), who discussed it in detail and agreed on its content, and subsequently transmitted to the Meeting of MAP Focal Points (Athens, 6-10 May 1996) who approved it. The present document is the final text adopted by the Contracting Parties at their Extraordinary Meeting held in Montpellier from 1 to 4 July 1996.

1. BACKGROUND

1.1 The MED POL Programme, designed initially as the environmental assessment component of the Mediterranean Action Plan, has been operational since 1975. Its first phase (MED POL-Phase I) was implemented from 1975 until 1980 and it comprised seven basic baseline studies covering the major marine pollution problems in the Mediterranean. In 1981, the Contracting Parties to the Barcelona Convention approved a new ten-year long-term programme (MED POL-Phase II, 1981-1990) which included two main components, monitoring and research. In 1991, the Contracting Parties decided to extend MED POL-Phase II until 1995. In 1995, it was further extended to 1996 to allow the completion of the programme as well as the formulation of the next phase.

1.2 In fact, during the implementation of MED POL-Phase II, the need was felt to bring the MED POL Programme closer to the other components of the Mediterranean Action Plan and in particular to the Protocol for the Protection of the Mediterranean Sea against Pollution from Land-Based Sources, which entered into force in 1983, and the more recent Coastal Areas Management Programme (CAMP). As a result, preparations were made to refocus the MED POL Programme and thus prepare a new phase of the programme (MED POL-Phase III, 1996-2005). In addition, global events such as the Rio de Janeiro Summit, Agenda 21 and the Contracting Parties meeting in 1995 outlined a different and more integrated dimension in the approach to marine pollution control programmes, i.e. towards sustainable development.

1.3 As early as 1989, a meeting of experts took place to evaluate the main pollution data gathered until then through MED POL (UNEP(OCA)/MED WG. 5/3). Four experts prepared specific reports on sources of pollution (UNEP(OCA)/MED WG.5/Inf.3), micro-organisms in coastal areas (UNEP(OCA)/MED WG.5/Inf.4), heavy metals in coastal and reference areas (UNEP(OCA)/MED WG.5/Inf.5) and petroleum and chlorinated hydrocarbons in coastal and reference areas (UNEP(OCA)/MED WG.5/Inf.6), which presented the available data, showed the existing gaps, and made suggestions for the improved collection and use of data.

1.4 In addition, several meetings and consultations took place within and outside the Secretariat with the scientific community and the United Nations bodies involved in the Programme; in particular, large forums such as the ICSEM/IOC/UNEP Workshops on pollution of the Mediterranean Sea were utilized to discuss with the scientific community the major achievements and shortcomings of the Programme and to propose new approaches. Two review papers, "Monitoring Strategies of Marine Pollution" and "Pollution Problems in the Mediterranean and Relevant Research Strategies", were presented and widely discussed during the Xth CIESM/IOC/UNEP Workshop held in Perpignan (1990). The papers summarized and critically analysed the work carried out within the framework of MED POL in the field of monitoring and research and proposed follow-up activities. During the XIth CIESM/IOC/UNEP Workshop on Pollution held in Trieste (1992) another review paper "The Data Quality Assurance Programme of MED POL" presented the new strategy of MED POL as to data quality assurance and the prospects in the specific field. Discussions on the subject of the new phase of MED POL were also held in the course of all Inter-Agency Advisory Committee Meetings of MED POL.

1.5 In 1992, the Bureau of the Contracting Parties asked the Secretariat to organize the preparation of an in-depth evaluation of the MED POL Programme by scientists/experts external to the MAP office with a view to using this evaluation in the drafting of Phase III of MED POL.

Five consultants worked during 1993 and an evaluation was prepared and presented to the Eighth Ordinary Meeting of the Contracting Parties in October 1993 (UNEP(OCA)/MED IG.3/Inf.6). During the latter Meeting, the Contracting Parties formally agreed that a Phase III of MED POL should be prepared covering the period from 1996 to 2005 and, to this effect, they set a number of basic objectives and principles to be used in its preparation (UNEP(OCA)/MED IG.3/5, Annex IV).

1.6 The meeting of experts on the preparation of MED POL-Phase III was held in Izmir from 20 to 23 June 1994 with the partial financial support of the Government of Turkey. Twenty experts from the Mediterranean and elsewhere attended the meeting, together with representatives of United Nations agencies and international organizations (UNEP(OCA)/MED WG.75/3). The meeting, after reviewing and discussing the achievements and shortcomings of Phases I and II of the MED POL Programme, prepared a draft MED POL-Phase III Programme, which was submitted for approval to the Joint Meeting of the Scientific and Technical Committee and the Socio-Economic Committee (Athens, 3-8 April 1995). Due to lack of time, this document was not considered by the Joint Meeting and delegations were requested to provide comments to the Secretariat in writing. After reviewing the comments received and taking into account the results of the informal consultation meeting on MED POL-Phase III (Athens, 13-15 December 1995), the document was revised to bring it in line with the Action Plan for the Protection of the Marine Environment and the Sustainable Development of the Coastal Areas of the Mediterranean (MAP-Phase II), approved by the Contracting Parties in June 1995. Finally, the revised document was first submitted to the Meeting of the MED POL National Coordinators (Athens, 18-22 March 1996), who discussed it in detail and agreed on its content, and subsequently transmitted to the Meeting of MAP Focal Points (Athens, 6-10 May 1996) who approved it. The present document is the final text adopted by the Contracting Parties at their Extraordinary Meeting held in Montpellier from 1 to 4 July 1996.

2. INTRODUCTION

2.1 The organization of a programme for monitoring of the sources, levels and effects of contaminants, as well as the research related to this monitoring, was one of the cornerstones of the Mediterranean Action Plan (MAP) adopted by the governments of the Mediterranean countries in February 1975. With the adoption, in 1976, of the Barcelona Convention by the same governments, and the subsequent adoption of the Protocols to this Convention, the objectives and methodologies of the programme were gradually modified in order to respond to the expanding goals set by the governments.

2.2 The declared objectives of the first phase of the Programme, MED POL-Phase I (1975-1980), were:

- to formulate and carry out a coordinated pollution monitoring and research programme taking into account the goals of the Mediterranean Action Plan and the capabilities of the Mediterranean research centres to participate in it;
- to assist national research centres in developing their capabilities to participate in the Programme;
- to analyse the sources, levels, pathways, trends and effects of pollutants relevant to the Mediterranean Sea;
- to provide the scientific/technical information needed by the Governments of the Mediterranean States and the EEC for the negotiation and implementation of the Convention and its related Protocols; and
- to build up consistent time-series of data on the sources, pathways, levels and effects of pollutants in the Mediterranean Sea and thus contribute to the scientific knowledge of the Mediterranean Sea.

2.3 While the first phase of the Programme focused on strengthening national capabilities in order to enable all countries to participate in the Programme and on the development of methodologies needed to implement it, the next phase of the Programme¹ (MED POL-Phase II, 1981-1996) had more general and broader objectives to provide the Parties to the Barcelona Convention with:

- information required for the implementation of the Convention and the Protocols;
- indicators and evaluation of the effectiveness of the pollution prevention measures taken under the Convention and the Protocols;
- scientific information that may lead to eventual revision and amendment of the relevant provisions of the Convention and the Protocols, and for the formulation of additional protocols;

¹ *Long-term programme for pollution monitoring and research in the Mediterranean (MED POL)-Phase II.* UNEP Regional Seas Reports and Studies No. 28. Rev.1. UNEP, 1986.

- information that could be used in formulating environmentally sound national, bilateral and multilateral management decisions essential for the continuous socio-economic development of the Mediterranean region on a sustainable basis; and
- periodic assessment of the state of pollution of the Mediterranean Sea.

2.4 During the second phase of MED POL:

- the gains of the first phase were consolidated by considerable strengthening of national institutional capabilities through: training; provision of equipment; development of suitable sampling and analytical techniques, quality assurance programmes including intercalibration exercises, equipment maintenance and other forms of assistance;
- the monitoring of the levels and effects of contaminants was intensified, and gradually focused on monitoring related to compliance with the pollution control measures adopted by the Contracting Parties, through agreements with governments involving about 80 national institutions in practically all Mediterranean countries;
- the research programme contributing to the improved understanding of the requirements for pollution control measures was considerably broadened, and implemented through more than 500 research contracts with national institutions in practically all Mediterranean countries;
- a detailed survey (inventory) of pollutants from land-based sources, as defined by the Protocol for the Protection of the Mediterranean Sea against Pollution from Land-Based Sources (LBS Protocol), was initiated;
- consistent databases resulting from monitoring, research and survey activities, and other sources, were built-up and used in the preparation of studies, analyses and assessments of specific environmental pollution problems;
- a regional assessment of the environmental state of the marine and coastal environment was prepared (1989 and 1995);
- a regional assessment of the possible implications of expected climate changes was prepared (1992 and 1995), and 11 detailed site-specific studies were carried out on the implications of these changes, with concrete recommendations for the possible mitigation of the negative effects;
- in-depth analyses ("assessment documents") of 13 specific problems related to the control of individual contaminants (or group of contaminants) covered by the LBS Protocol were prepared and used as the basis for the formulation of control measures subsequently adopted by the Parties to the Convention; and
- significant input was made from all activities listed above into the Coastal Area Management Programme (CAMP) carried out within the framework of the Action Plan.

2.5 The Eighth Ordinary Meeting of the Contracting Parties to the Barcelona Convention (Antalya, 12-15 October 1993) reaffirmed the objective of the Mediterranean Action Plan (MAP) since its establishment to act as an instrument of regional cooperation covering the concerns

both of the environment and of development, and approved a set of recommendations (UNEP(OCA)/MED IG.3/5, Annex IV) on the general strategy to be followed in MAP, as well as the action to be taken under specific components of MAP in order to implement this strategy.

2.6 Recognizing that:

- in line with UNCED and Agenda 21, further emphasis is to be given to those MAP activities contributing to the implementation of the sustainable development concept; and that
- MED POL, as the scientific and technical component of MAP, provides the scientific basis for decision-making related to marine pollution in the region in the process of achieving sustainable development;

recommendation 7.2 of the Antalya meeting called for the development of MED POL-Phase III and specified the fields in which it should assist the Contracting Parties, with the following overall objectives:

- organization of a Mediterranean coordinated marine pollution monitoring and research programme, concentrating on contaminants and pollutants affecting the quality of the marine and coastal environment, as well as the health of man and of the living resources in the Mediterranean and interpretation/ assessment of the results of the programme as part of the scientific basis for decision-making in the region;
- generation of information on the sources, levels, amounts, trends (trend monitoring) and effects of marine pollution, development of capabilities for assessing the present and future state of the marine environment within the Mediterranean region as an additional component of the scientific basis upon which the formulation of proposals for preventive and remedial action can be based;
- formulation of proposals for technical, administrative and legal programmes and measures for the prevention and/or reduction of pollution;
- strengthening and, when necessary, development of the capabilities of the national institutions, in accordance with the circumstances and the country requesting it, so as to implement monitoring and research of pollution of the marine environment; and
- assistance, as appropriate, to Contracting Parties for the implementation of the recommendations adopted with a view to the assessment of their effectiveness; this assistance will allow the competent authorities to verify the recommendations adopted taking into account data of a satisfactory standard.

2.7 The Ninth Ordinary Meeting of the Contracting Parties (Barcelona, 5-8 June 1995) approved the Action Plan for the Protection of the Marine Environment and the Sustainable Development of the Coastal Areas of the Mediterranean (MAP-Phase II). Chapter 3 of MAP-Phase II, which deals with the assessment, prevention and elimination of marine pollution, gives the framework for MED POL-Phase III. In addition, the adoption of the amendment to the 1980 LBS Protocol by the Conference of Plenipotentiaries held in Syracuse on 6-7 March 1996, also provides MED POL with the legal framework of pollution control for the Mediterranean, thus indicating the main programme strategy to be followed.

2.8 The main strategic change in the MED POL Programme is therefore the shift of the emphasis from pollution assessment to pollution control, which brings the programme close to the objectives of the LBS Protocol and MAP-Phase II and makes it an effective tool for achieving sustainable development. The Programme also includes monitoring for compliance purposes, especially as far as the control measures adopted are concerned.

3. OBJECTIVES OF MED POL-PHASE III (1996-2005)

3.1 The objectives of MED POL-Phase III were formulated taking into consideration the experience gained during MED POL-Phases I and II, as well as the documents adopted by the Ninth Ordinary Meeting of the Contracting Parties (Barcelona, 5-8 June 1995), namely, MAP-Phase II, the Barcelona Resolution, the Priority Fields of Activities (1996-2005) and the amended Barcelona Convention and Protocols.

3.2 The ultimate and overall objective of MED POL-Phase III (1996-2005) is the elimination of pollution² of the Mediterranean Sea from all activities that cause such pollution, in particular land-based activities, through the full implementation of the LBS Protocol. MED POL-Phase III provides the basis for action related to assessment, prevention and elimination of marine pollution and relates such action to other components of MAP-Phase II in the perspective of sustainable development.

The specific objectives of MED POL-Phase III are in particular:

- (a) the assessment of all (point and diffuse) sources of pollution, the load of pollution reaching the Mediterranean Sea, and the magnitude of the problems caused by the effect of contaminants on living and non-living resources, including human health, as well as on amenities and uses of the marine and coastal regions;
- (b) assistance to countries, including capacity-building, in the development and implementation of national action plans for the elimination of marine pollution, in particular from land-based activities;
- (c) the assessment of status and trends in the quality of the marine and coastal environment as an early warning system for potential environmental problems caused by pollution;
- (d) the formulation and implementation of action plans, programmes and measures for the prevention and control of pollution, for the mitigation of impacts caused by pollution and for the restoration of systems already damaged by pollution; and
- (e) the monitoring of the implementation of the action plans, programmes and measures for the control of pollution and the assessment of their effectiveness.

3.3 In view of the broad cross-sectoral mandate of MED POL with heavy emphasis on pollution control from all sources, in particular from land-based sources and activities, and taking

² In the context of this document, "pollution of the marine environment" is interpreted according to the definition adopted in the United Nations Convention on the Law of the Sea and in the Barcelona Convention (as amended in 1995) as:

the introduction by man, directly or indirectly, of substances or energy into the marine environment, including estuaries, which results or is likely to result in such deleterious effects as harm to living resources and marine life, hazards to human health, hindrance to marine activities, including fishing and other legitimate uses of the sea, impairment of quality for use of sea water and reduction of amenities.

into account the fact that the control of marine pollution is one of the central issues to be resolved within the framework of MAP-Phase II in order to enable the sustainable development of the Mediterranean region, the new phase of MED POL will require intensified interaction between MED POL and practically all other components of MAP, and with the Coastal Area Management Programme (CAMP) in particular. Therefore, in outlining the possible elements of MED POL's new phase, an attempt is made in the present document to link the specific objectives and activities proposed for MED POL-Phase III with those adopted for the other components of MAP-Phase II.

3.4 In addition to reflecting the links between MED POL-Phase III and the other components of MAP-Phase II, the Programme was also prepared with due regard for the concepts and recommendations contained in Agenda 21 as they bear on activities relevant to MED POL, specifically those contained in Chapter 17 of Agenda 21³.

3.5 The stated goals shall be achieved through the implementation of interdependent and linked (see Figures 1 and 2) activities grouped in three basic MED POL-Phase III programme elements (assessment of pollution-related problems; pollution control; and supporting measures), all contributing to the ultimate goal of MED POL-Phase III and MAP-Phase II. The rationale of these activities, their specific objectives and means of implementation are described in Sections 5-8 of the present document.

3.6 The development of suitable measures for the prevention, abatement and control of pollution from all sources, and continuous assessment of the effectiveness of their implementation, are the central goals of the new phase of MED POL. All other activities are subsidiary to these goals and contribute to their more efficient achievement. By concentrating on these goals, MED POL-Phase III is expected to provide critically important inputs into practically all other components of MAP-Phase II, notably CAMPs (giving due consideration to pollution problems associated with coastal development), and thus make a significant contribution to the sustainable development of the Mediterranean region.

³ Chapter 17 of Agenda 21, adopted by the United Nations Conference on Environment and Development (Rio de Janeiro, 3-14 June 1992), lists 33 objectives and more than 180 types of activity that are recommended under the heading *Protection of the oceans, all kind of seas, including enclosed and semi-enclosed seas, and coastal areas and the protection, rational use and development of their resources.*

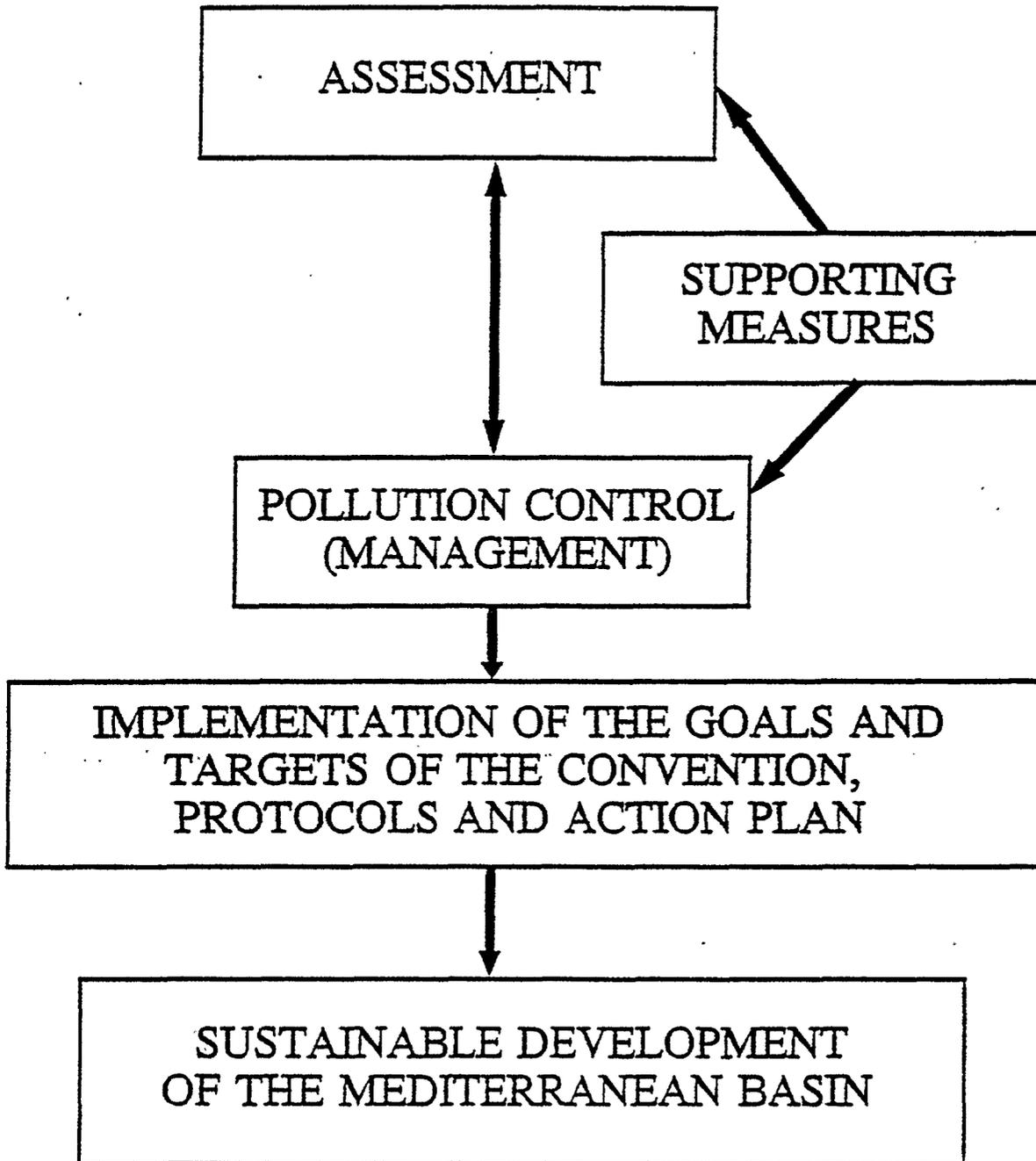


Figure 1: Relationship of MED POL-Phase III to the goals of the Mediterranean Action Plan emphasizing the feed-back relationship between assessment and pollution control.

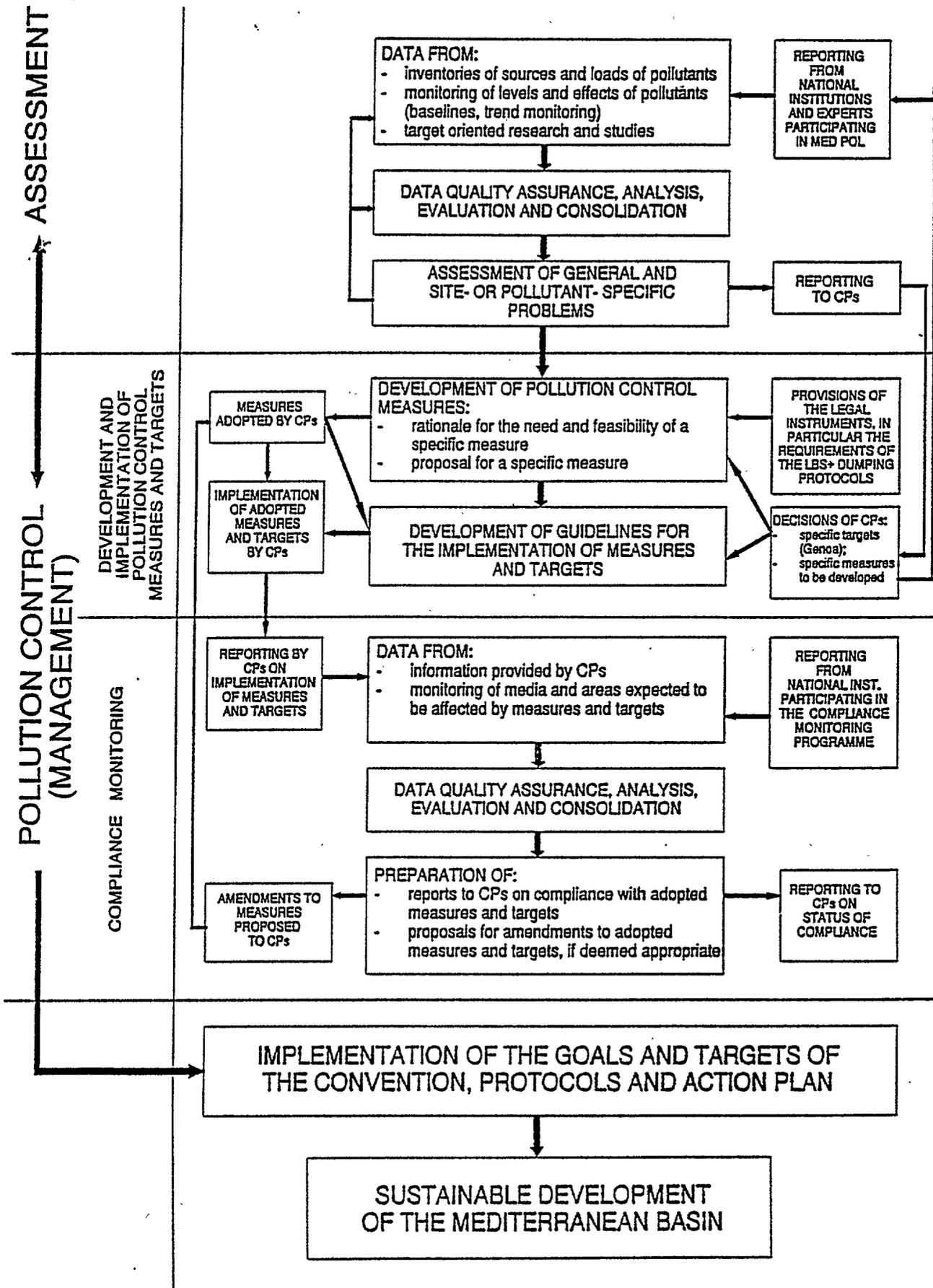


Figure 2: Simplified flow chart showing the more important links between the substantive activities of MED POL-Phase III.

4. MODALITIES OF COOPERATION BETWEEN THE CONTRACTING PARTIES AND THE SECRETARIAT REGARDING MED POL

4.1 In order to ensure the efficient coordination of national efforts related to MED POL and a streamlined communication channel between the *Secretariat of MAP* and the national structures designated by the Contracting Parties to participate in MED POL, each Contracting Party designates a person or office as the *National Coordinator for MED POL*. Their mutual responsibilities shall be as follows:

Responsibilities of the National Coordinators for MED POL

4.2 The National Coordinators for MED POL should actively promote MED POL-related activities in their respective countries and should maintain close and continuous contact with the MED POL Collaborating Institutions, other national agencies involved in the implementation of MED POL, as well as the Secretariat. In order to maximize the National Coordinators' efficiency, the Contracting Parties should establish, as appropriate, national mechanisms (e.g. Intersectoral Coordination Committees, Technical Committees, Scientific Advisory Groups) to assist the National Coordinators in the fulfilment of their duties. Furthermore, the Contracting Parties should endeavour to involve the National Coordinators in MAP-related decision-making at the highest possible levels⁴.

4.3 Responsibility for implementing MAP II of the Barcelona system lies with the MAP Focal Points and consequently also the implementation of MED POL. It is the responsibility of the MAP Focal Points to assist MED POL National Coordinators in the implementation of MED POL.

4.4 The specific responsibilities of the National Coordinators shall be:

- (a) to ensure the implementation of all activities of the national monitoring programme of MED POL covering compliance and trend monitoring;
- (b) to ensure selection and designation of *National MED POL Collaborating Institutions* and coordinate their activities relative to all MED POL activities;
- (c) to serve as the channel for all formal communications between the Secretariat and the National MED POL Collaborating Institutions, while for technical matters Institutions may be contacted directly by the Secretariat;
- (d) to ensure the collection and evaluation of the data and information provided by the National MED POL Collaborating Institutions and to transmit these data and information annually, as well as their evaluation, to the Secretariat according to agreed formats and schedules;
- (e) to ensure preparation and submission of reports on dumping activities relevant to the Dumping Protocol and on implementation of the LBS Protocol;

⁴ Should the Contracting Parties establish National Committees for MAP, the National Coordinators for MED POL should be members of such Committees.

- (f) to organize the preparation of national surveys and/or inventories of point and non-point land-based sources of pollutants relevant to the LBS Protocol, including those relevant to airborne pollutants;
- (g) to organize the preparation of national reports on the state of the marine and coastal environment areas, to be prepared every four years with the first report being prepared by the year 2001;
- (h) to follow the progress achieved in the implementation of national MED POL-related activities and to report to the Secretariat thereon according to agreed formats and schedules;
- (i) to participate in or be represented at the meetings of the MED POL National Coordinators; and
- (j) to review the MED POL-related technical and policy documents and proposals prepared by the Secretariat before their submission to the Contracting Parties, and to advise the Contracting Parties and the Secretariat on how to handle these documents and proposals.

Responsibilities of the National MED POL Collaborating Institutions

4.5 As far as the national monitoring programmes are concerned, individual responsibilities shall be determined by the National Coordinators for MED POL in consultation with the Secretariat, as appropriate; such responsibilities shall be reflected in the monitoring agreements signed between the Secretariat and the National Coordinators for MED POL, as appropriate. The Institutions shall report to the Secretariat through the respective Coordinator according to agreed formats and schedules, and shall participate in the ongoing mandatory Data Quality Assurance programmes organized by the Secretariat.

Responsibilities of the Secretariat

4.6 The specific responsibilities of the Secretariat shall be:

- (a) to coordinate and harmonize the work carried out within the framework of the agreed national MED POL programmes in close cooperation with specialized bodies of the United Nations system supporting or participating in the Programme; this shall be done in close consultation and cooperation with National Coordinators for MED POL, National MED POL Collaborating Institutions, MAP's Regional Activity Centres and international and intergovernmental specialized organizations;
- (b) to evaluate and analyse the data stored in the Secretariat's database received through the National Coordinators for MED POL;
- (c) to organize Data Quality Assurance programmes with or through the relative competent United Nations specialized agencies participating in the Programme, as appropriate;
- (d) to organize and implement training and capacity-building activities when needed and requested by developing countries;

- (e) to convene the periodic meetings of the MED POL National Coordinators and any other *ad hoc* groups of experts called to:
- assist in the analysis, evaluation, and integration of data and information made available through the National Coordinators for MED POL or other sources; and
 - review and advise on the technical and policy documents prepared by the Secretariat and the United Nations specialized agencies;
- (f) to prepare, jointly with or through the relevant competent United Nations specialized agency or agencies participating in the Programme, whenever appropriate, technical and policy documents, including guidelines, for the Contracting Parties based on data and information received through the National Coordinators for MAP, through MED POL Collaborating Institutions, through other research Institutions and open scientific literature. These technical and policy documents include:
- reports on the state and trends in the environmental quality of the marine and coastal areas; and
 - proposals for action plans, programmes and measures for pollution control, including those that may prevent or abate the environmental degradation of these areas, or contribute to the restoration of the areas affected by degradation; and
- (g) to provide the Contracting Parties, and other interested bodies with information available on the state of the Mediterranean environment.

5. ASSESSMENT OF POLLUTION-RELATED PROBLEMS

Basis for action

5.1 A scientific assessment of pollution-related problems of the Mediterranean region is one of the basic prerequisites for development of a rational approach towards the sustainable development of the region. Such an assessment, together with information provided through the other components of MAP-Phase II, is the sound foundation for the decisions and recommendations of the Contracting Parties to the Convention to adopt action plans, programmes and measures suitable and applicable in the Mediterranean region⁵.

Objectives

5.2 The specific objectives of this programme element shall be:

- (a) to identify the sources, assess the present levels and keep under periodic review the trends in the load of contaminants reaching the Mediterranean Sea from marine and land-based sources including point and non-point sources and airborne contaminants. This will constitute an inventory of sources of pollution required as basic information for the implementation of the LBS and other Protocols⁶;
- (b) to assess, in areas under direct influence of pollution sources (e.g. coastal waters, estuaries), the levels and trends of contaminants and their potentially harmful effects on marine life and human health, and the negative effects on fisheries and aquaculture⁶;
- (c) to assess, in areas not under direct influence of identifiable point or non-point sources of pollution ("reference areas"), the magnitude of parameters which may serve as indicators for the general trend in the environmental quality of larger areas⁶;
- (d) to evaluate the anthropogenic loads of pollutants and to assess their potential harmful effects on the marine environment, taking into consideration and comparing (on a sub-regional basis) with background levels of relevant substances;
- (e) to identify and assess potential short- and long-term threats to the Mediterranean environment;
- (f) to provide the Contracting Parties, and other interested parties, with information available on the state of the Mediterranean environment.

Activities

5.3 The stated objectives shall be achieved through:

- (a) monitoring/studies/surveys, as appropriate, of levels, loads, pathways, and distribution of contaminants and their effects;

⁵ Articles 5, 6, 7, 8 and 11 of the Barcelona Convention (1995).

⁶ Paragraph 17.35 of Agenda 21.

- (b) monitoring of trends in the levels and effects of contaminants⁷ (see Annex);
- (c) target-oriented research in support of monitoring activities⁸;
- (d) analysis and evaluation (at a national, sub-regional or regional level) of pollution related data from surveys, baseline studies and monitoring organized within the framework of MED POL;
- (e) preparation of reports on the assessment of specific pollution-related problems of the Mediterranean region including recommendations for action, if deemed appropriate⁹;
- (f) preparation of national reports on the state of the marine and coastal environment, to be prepared every four years with the first report being prepared by the year 2001;
- (g) preparation of short and concise reports on the state of pollution of the Mediterranean environment for each meeting of the Contracting Parties, specifically highlighting the changes and trends identified since the submission of the last report¹⁰; and
- (h) preparation by the Secretariat for the 2001 meeting of the Contracting Parties, of a consolidated report on the state of the Mediterranean environment¹¹.

5.4 The monitoring shall concentrate on the assessment of trends in pollution-related problems in order to provide a solid basis for the appraisal of the environmental health of the Mediterranean as a whole, and to serve as an early warning system for the problems that may be encountered in the future (see Annex), as well as the preparation of inventories of point and non-point sources of pollution, particularly the land-based sources, and the monitoring of the pollution loads reaching the Mediterranean from these sources.

5.5 In some instances, data from monitoring programmes alone will not be sufficient for the assessment of pollution-related problems and their long-term implications. Therefore, in such cases, monitoring data will have to be supplemented by well-defined target-oriented research as indicated by the Contracting Parties.

5.6 Although the overall assessment for the Mediterranean will be organized by the Secretariat of MAP, there is also a need for national assessments in order to decide on national management measures.

⁷ Article 12 of the Barcelona Convention (1995).

⁸ Article 13.3 of the Barcelona Convention (1995).

⁹ The recommendations may lead to the development of proposals for concrete pollution control measures, as described in Section 6A of the present document.

¹⁰ Paragraph 17.106 (d) of Agenda 21.

¹¹ Reports of this nature were published in 1990 and 1996.

Means of implementation

5.7 The assessment of pollution-related problems will require a high degree of coordination and close cooperation between the Secretariat of MAP¹², the National Coordinators for MED POL, the National MED POL Collaborating Institutions, the specialized agencies of the United Nations system supporting or participating in MED POL, as well as other specialized intergovernmental and international organizations¹³. The modalities of their cooperation are described in Section 4 of the present document.

5.8 Data and information relevant to the monitoring of trends in the levels and effects of contaminants, as well as to the inventories of pollution sources and loads (paragraphs 5.3(a) and (b) and 5.4), will be generated and provided to the Secretariat by the National MED POL Coordinators and by the National MED POL Collaborating Institutions as described in Section 4.

5.9 Target-oriented research (paragraphs 5.3(c) and 5.5) will be based on research projects selected by the Secretariat in cooperation with the relative United Nations specialized agency participating in the Programme. For such projects, research contracts will be signed by the Secretariat or agency and the National MED POL Collaborating Institutions, in consultation with the relevant National Coordinators for MED POL. The Collaborating Institutions may receive financial support from the Trust Fund to cover part of the cost of the research carried out by them.

5.10 Assistance to developing countries will be needed in the form of training of their national experts and technical assistance (equipment, consumables, Data Quality Assurance) to their national institutions, in order to enable them to participate effectively in the programme element¹⁴.

¹² In the context of this document, UNEP's Coordinating Unit for the Mediterranean Action Plan in Athens is identified as the Secretariat of MAP.

¹³ - United Nations Environment Programme (UNEP)
- Food and Agriculture Organization of the United Nations (FAO)
- United Nations Educational, Scientific and Cultural Organization (UNESCO)
- World Health Organization (WHO)
- World Meteorological Organization (WMO)
- International Atomic Energy Agency (IAEA)
- Intergovernmental Oceanographic Commission (IOC)
- World Conservation Union (IUCN)

¹⁴ Article 13.3 of the Barcelona Convention (1995).

6. POLLUTION CONTROL

6.1 A scientific assessment of pollution-related problems of the Mediterranean region is only the first step towards action to prevent, abate and control pollution and its effects. Therefore, the substantive focus of MED POL-Phase II gradually shifted from assessment of the problems related to pollution to the development of proposals for concrete pollution control measures. Taking into account the data and information obtained in the previous phases of MED POL and relying on a permanent system for keeping the present assessment up to date through activities envisaged in Section 5 of the present document, MED POL-Phase III will further emphasize the development of action plans, programmes and measures for the control of pollution and compliance with those adopted by the Contracting Parties, as its central activities.

A. Development and implementation of pollution control measures¹⁵

Basis for action

6.2 Pollution from land-based sources was recognized in the very early stages of MAP as the major problem for the Mediterranean region. The adoption of the LBS Protocol (1980), its entry into force (1983), and its amendment (1996), provided the legal basis for the development of action plans, programmes and measures for the control of pollution from land-based sources and activities in accordance with the Protocol.

6.3 Although the control of pollution from land-based sources remains a major objective of MAP-Phase II, the control of pollutants from other sources and activities is not neglected, as exemplified by the adoption of protocols associated with the Barcelona Convention which deal with pollution from dumping and emergency situations, as well as with offshore exploration and exploitation¹⁶.

Objectives

6.4 The specific objectives of this programme element shall be:

¹⁵ In the context of this document, *pollution control measures* are broadly interpreted as a combination of technical (technological), economic, legal and administrative policies, measures and practices contributing to the:

- prevention and mitigation of pollutants' impact on human health and on the quality of the marine and coastal environment, including their living and non-living resources, and amenities;
- general decrease of pollution load reaching the Mediterranean Sea;
- rehabilitation of marine and coastal environment damaged by the present impact of pollution; and
- achievement of sustainable development.

¹⁶ *Protocol concerning Cooperation in Combating Pollution of the Mediterranean Sea by Oil and Other Harmful Substances* (adopted in 1976, entered into force in 1978); *Protocol for the Prevention of Pollution of the Mediterranean Sea by Dumping from Ships and Aircraft* (adopted in 1976, entered into force in 1978, amended in 1995); *Protocol for the Protection of the Mediterranean Sea against Pollution resulting from Exploration and Exploitation of the Continental Shelf, the Seabed and its Subsoil* (adopted in 1994).

- (a) to develop action plans, programmes and measures for the control of pollution as required by the Barcelona Convention and its Protocols and by the decisions and recommendations of the Contracting Parties; and
- (b) to implement the action plans, programmes and measures for the control of pollution adopted by the Contracting Parties.

Activities

6.5 The stated objectives shall be achieved by:

- (a) providing an assessment of the magnitude and intensity of the problem, which is to be tackled by the measures ("assessment document"), including a scientifically sound rationale for pollution control measures, taking into account ecotoxicological criteria and the precautionary principle¹⁷;
- (b) formulation of proposals for action plans, programmes and measures for the control of pollution, taking into account article 4.4 of the Barcelona Convention (1995)¹⁸ and the feasibility of implementing the measures in the Mediterranean region;
- (c) formal adoption of the proposed action plans, programmes and measures, or of their amended versions, by the Contracting Parties;
- (d) development of technical guidelines for the implementation of adopted action plans, programmes and measures; and
- (e) implementation by the Contracting Parties of the adopted action plans, programmes and measures for the control of pollution.

Means of implementation

6.6 A high degree of cooperation and coordination will be required among the Secretariat, the Contracting Parties, the National Coordinators for MED POL, as well as the relevant Regional Activity Centres of MAP, the specialized agencies of the United Nations system (see footnote 13) as well as the relevant international and intergovernmental organizations to implement the activities listed above.

6.7 The priorities for the formulation of action plans, programmes and measures, as well as the timetable for the development of proposals, shall be determined by the Contracting Parties.

¹⁷ Article 4.3 of the Barcelona Convention (1995).

¹⁸ Article 4.4 of the Barcelona Convention (1995) states that:
In implementing the Convention and the related Protocols, the Contracting Parties shall:

- (a) adopt programmes and measures which contain, where appropriate, time limits for their completion;
- (b) utilize the best available techniques and the best environmental practices and promote the application of, access to and transfer of environmentally sound technology, including clean production technologies, taking into account the social, economic and technological conditions.

6.8 Based on the decisions of the Contracting Parties, the Secretariat will coordinate the preparation of the assessment documents, the formulation of proposals for action plans, programmes and measures, and the technical guidelines for their implementation.

6.9 Consultants and *ad hoc* meetings of experts may be used by the Secretariat for the preparation of the assessment documents, the proposals for action plans, programmes and measures, and the guidelines for their implementation.

6.10 The meetings of the MED POL National Coordinators shall review, and revise as necessary, the drafts of the assessment documents, the proposals for action plans, programmes and measures and the guidelines for their implementation, before they are submitted for the consideration of the Contracting Parties.

6.11 The implementation of the adopted action plans, programmes and measures shall be the responsibility of the individual Contracting Parties¹⁹.

6.12 Assistance shall be provided through the Secretariat to developing countries requesting training of their national experts, or technical and legal advice to their national institutions, in order to ensure timely and effective implementation of the adopted action plans, programmes and measures for the control of pollution²⁰.

B. Compliance control

Basis for action

6.13 Compliance with the provisions of MAP-Phase II, the Barcelona Convention and its Protocols (in particular the LBS and Dumping Protocols), and specifically with the decisions and recommendations adopted by the meetings of the Parties to the Convention²¹, is the key to successful environmental protection of the Mediterranean Sea. The most relevant decisions and recommendations pertinent to the abatement, prevention and control of pollution are:

- (a) the relevant targets of the Genoa Declaration, adopted by the Contracting Parties in 1985²², to be achieved as a matter of priority during the second decade of the Mediterranean Action Plan;
- (b) the specific action plans, programmes and measures adopted by the Contracting Parties in the context of the implementation of the LBS Protocol²³; and

¹⁹ Regarding potential financial support for the implementation of the adopted measures, see paragraph 7.8.

²⁰ Article 13.3 of the Barcelona Convention (1995), and Article 10 of the LBS Protocol (1996).

²¹ Article 27 of the Barcelona Convention (1995).

²² Genoa Declaration. UNEP(OCA)/IG.56/5.

²³ The common measures adopted so far are included in MAP Technical Reports Series No. 95.

- (c) the relevant decisions of the Contracting Parties and especially paragraph 6 of the Barcelona Resolution adopted by the Conference of Plenipotentiaries (Barcelona, 9-10 June 1995).

Objectives

6.14 The specific objectives of this programme element shall be:

- (a) to monitor, on a continuous basis, the implementation and to assess the effectiveness of the implementation of action plans, programmes and measures for the control of pollution adopted or recommended by the Contracting Parties;
- (b) to identify problems experienced by the Contracting Parties in the implementation of the action plans, programmes and measures, and formulate proposals that may assist in overcoming those problems²⁴; and
- (c) to keep the Contracting Parties regularly informed about the status of the implementation of the adopted action plans, programmes and measures²⁵.

Activities

6.15 The stated objectives shall be achieved through:

- (a) analysis and evaluation at a national, subregional or regional level of data and information generated by the Contracting Parties on the status of implementation of the adopted or recommended action plans, programmes and measures for the control of pollution²⁶;
- (b) compliance monitoring programmes²⁷ carried out by National MED POL Collaborating Institutions (see Section 4 and the Annex);
- (c) analysis and evaluation of data and information received through the National Coordinators for MED POL from national compliance monitoring programmes (see Section 4);

²⁴ Paragraph 17.25 (b) of Agenda 21.

²⁵ Paragraph 17.35 (b) of Agenda 21.

²⁶ Article 26 of the Barcelona Convention (1995); Articles 4, 5 and 6 of the Dumping Protocol (1995); and Article 13 of the LBS Protocol (1996).

²⁷ Article 12 of the Barcelona Convention (1995), and Article 8 of the LBS Protocol (1996).

- (d) target-oriented research in support of national compliance monitoring programmes²⁸; and
- (e) preparation of consolidated reports for the Contracting Parties on the status of the implementation of the action plans, programmes and measures, including recommendations on the ways and means to improve the efficiency of their implementation.

6.16 The type of data and information that will be expected from the Contracting Parties, may include, *inter alia*:

- (a) the status of the adopted or recommended action plans, programmes and measures (paragraph 6.13(b)) in relation to the relevant national legislation and national administrative procedures and practices²⁹;
- (b) information on the permits issued for dumping of waste³⁰;
- (c) the experience gained with the implementation of the action plans, programmes and measures for the control of pollution and dumping permits, and the permits provided for by the LBS Protocol;
- (d) the results of the time series of measurements and observations (see Annex) regarding the levels and effects of contaminants in media directly affected by the measures (e.g. effluent waters, recipient waters);
- (e) the major marine and land-based sources of marine pollution (including airborne) on the national territories, including coastal waters, and estimates of the amounts of contaminants reaching the marine environment from these sources; and
- (f) with regard to land-based pollution, information relevant to the monitoring of the status of the biological diversity, and on threats to specially protected areas, which may come from sources of pollution outside their control³¹.

Means of implementation

6.17 The Secretariat will coordinate all activities envisaged under the programme element. Close cooperation with and among the Contracting Parties and their institutions designated to participate in the programme element is the basic prerequisite for its successful implementation.

²⁸ Article 13.2 of the Barcelona Convention (1995), and Article 9 of the LBS Protocol (1996).

²⁹ Article 27 of the Barcelona Convention (1995) and Article 13 of the LBS Protocol (1996).

³⁰ Articles 5 and 6 of the Dumping Protocol (1995).

³¹ Article 21 of the SPA protocol.

6.18 Data and information on the status of the adopted or recommended action plans, programmes and measures, and on the experience gained with their application (paragraphs 6.16(a), (b) and (c)) will be provided to the Secretariat by the Parties to the Convention, or on their behalf by the designated National Coordinators for MED POL, without cost to the Trust Fund.

6.19 Data and information on the results of the time series of measurements and observations, and on the marine and land-based sources of pollution (paragraphs 6.16(d) and (e)) will be provided to the Secretariat by the Contracting Parties through the National Coordinators for MED POL. The costs involved are expected to be shared between the Trust Fund and the relevant national institutions on the basis of agreements between the Secretariat and the relevant national authorities (see Section 4).

6.20 Target-oriented research (paragraph 6.15(d)) will be based on research projects selected by the Secretariat in cooperation with the relevant United Nations specialized agency participating in the Programme. For such projects, research contracts will be signed by the Secretariat or agency and the National MED POL Collaborating Institutions, in consultation with the relevant National Coordinators for MED POL. The Collaborating Institutions may receive financial support from the Trust Fund to cover part of the cost of the research carried out by them.

6.21 Assistance shall be provided through the Secretariat to developing countries requesting training of their national experts, or technical advice or assistance (equipment, consumables and Data Quality Assurance³²) to their national institutions participating in monitoring the effectiveness of the implementation of pollution control measures and reporting on national compliance with these measures.

³² See paragraph 7.7 and the Annex.

7. SUPPORTING MEASURES

7.1 References have been made in Sections 5 and 6 of the present document to some of the measures supporting the substantive MED POL activities, but in view of their importance for the MAP as a whole, they are described in these sections of the document in a more comprehensive way.

A. Assistance (capacity-building)

Basis for action

7.2 MED POL-Phase III cannot be implemented in a meaningful way without a strong national institutional basis supported with adequate financial resources, equipment and experts. While the situation in developed countries of the Mediterranean region seems adequate to deal with the implementation of the MED POL Programme, the capacity of the developing countries will need further strengthening.

Objective

7.3 The objective of the programme element is:

- to facilitate the full participation of all Contracting Parties in MED POL, including the implementation of the action plans, programmes and measures for the control of pollution and the recommendations adopted by the Contracting Parties³³.

Activities³⁴

7.4 The stated objective shall be achieved by providing countries requesting assistance with:

- (a) technical advice on the most suitable institutional arrangements that may be needed for the implementation of the MED POL programme;
- (b) advice and technical assistance in all aspects of design and implementation of national MED POL programmes;
- (c) advice on legal³⁵, technical³⁶ and fiscal³⁷ policies, strategies, and practices that may contribute to the implementation of the action plans, programmes and measures for the

³³ Paragraphs 17.6 (k), 17.9, 17.14, 17.17, 17.23, 17.35 (f), 17.38 (f), 17.40 and 17.104 of Agenda 21.

³⁴ References to the legislative authority for specific assistance measures are given in the relevant paragraphs of Sections 5 and 6 of the present document.

³⁵ E.g., review of the adequacy of existing national legislation, proposals for adjustments in national legislation, proposals for new legislation.

³⁶ E.g., clean production technologies, minimization of waste.

³⁷ E.g., user fees, charges for violating pollution control measures, pricing policies and practices, fiscal incentives, possible loans and grants from international financial institutions.

control of pollution and targets adopted by the Contracting Parties;

- (d) individual and group training (e.g. seminars, workshops) of national experts (administrators, technicians, scientists) in all subjects related to the MED POL Programme;
- (e) equipment and material donated to the National MED POL Collaborating Institutions;
- (f) guidelines, manuals, documents and reference publications relevant to the implementation of the MED POL Programme; and
- (g) assistance in maintaining the analytical equipment used in national pollution monitoring programmes.

Means of implementation

7.5 Provision of the assistance shall be coordinated by the Secretariat, involving as necessary the relevant RACs of MAP, the specialized agencies of the United Nations system, as well as other international and intergovernmental organizations and programmes ready to offer or provide such assistance. The cost of the assistance will normally be at the expense of the Trust Fund, but the Secretariat will also solicit direct bilateral assistance (without cost to the Trust Fund) from countries and financial institutions ready to provide such assistance.

7.6 Assistance may also be provided by the Secretariat to the MED POL National Coordinators needed to fulfil their role as defined in Section 4.

7.7 Activities related to Data Quality Assurance (DQA)³⁸ will continue to be provided to MED POL Collaborating Institutions through the appropriate United Nations specialized agencies. The DQA programme will include all the elements necessary to achieve good quality data. Such elements cover all aspects of the monitoring programme ranging from sampling to data interpretation. The DQA programme should be mandatory and form an integral part of each national monitoring programme (see Annex, paragraphs 10 and 11).

7.8 The implementation of MED POL may be eligible for financial support (loans or grants) from international or regional financial institutions and mechanisms on a regional or country basis. The Secretariat will explore the possibilities for such support and will assist interested and potentially eligible countries to formulate project proposals aimed at accessing these resources³⁹.

³⁸ Data Quality Assurance is a mechanism for ensuring that the quality of the data is sufficiently reliable for its intended application.

³⁹ The Global Environment Facility (GEF), the European Union and the World Bank's Mediterranean Environment Programme are at present the three most promising mechanisms that may support MED POL-related activities.

B. Data and information management⁴⁰

Basis for action

7.9 The nature and quality of data and information provided through MED POL is of crucial importance for the soundness of the scientific and technical rationale underlying the decisions of the Contracting Parties. Therefore, great emphasis should be placed on appropriate data and information management procedures and techniques.

Objectives

- 7.10 The management of MED POL data and information shall have a twofold objective:
- (a) to make available to the Contracting Parties on a continuous basis reliable data and the information required for the development and effective implementation of action plans, programmes and measures for the control of pollution; and
 - (b) to assist all components of MAP, and the Coastal Area Management Programmes (CAMPs) in particular, with data and information on the sources, levels (concentrations), trends and effects of contaminants in the Mediterranean region.

Activities

- 7.11 The stated objectives shall be achieved through the following activities of the Secretariat:
- (a) collection of data and information resulting from MED POL activities;
 - (b) quality control (validation) of collected data and information;
 - (c) storage of validated data and information in appropriate databases maintained at the Secretariat or in the country concerned;
 - (d) analysis and reduction, if appropriate, of the validated data at a national or regional level;
 - (e) preparation of synthesis reports (evaluations) on general and specific MED POL related issues; and
 - (f) distribution (exchange) of data, information and synthesis reports to the Contracting Parties and their subsidiary bodies, RACs, National Coordinators for MED POL, National MED POL Collaborating Institutions, meetings organized within the framework of MAP, and other individuals and organizations, as appropriate, and in accordance with the policy that will be adopted by the Contracting Parties (see paragraph 7.14).

⁴⁰ Data and information management in the context of this document is understood as involving acquisition, quality control, analysis, evaluation, storage, retrieval and exchange (dissemination) of data and information.

Means of implementation

7.12 The National Coordinators for MED POL and the National MED POL Collaborating Institutions shall be the primary source of data and information supporting the development and implementation of MED POL.

7.13 The collection, quality control, analysis and evaluation of the data and information will be carried out nationally with the help of the Secretariat if needed, or by the Secretariat (with the help of the relevant organizations of the United Nations system, outside experts, and *ad hoc* meetings of experts, as necessary), for data stored at the Coordinating Unit.

7.14 The Secretariat's databank will include only data useful for the establishment of trends. The Secretariat, with the assistance of relevant experts, will develop a proposal for data and information distribution policy to be submitted for adoption to the Contracting Parties. The guiding principle of that policy should be that access to the data and information received by the Secretariat will normally be free for the parties involved in MED POL.

7.15 The reports of the Secretariat to the Contracting Parties will be transmitted through the subsidiary bodies of the Contracting Parties.

C. Coordination and cooperation

Basis for action

7.16 MED POL, as one of the basic and most complex MAP activities, linked with virtually all other MAP activities, requires a well-coordinated approach in order to ensure the harmonious cooperation and interaction of, and inputs from, the various actors contributing to its implementation.

Objective

7.17 The objective to be achieved through the coordination of MED POL activities is:

- to ensure the full implementation of Contracting Parties' decisions relevant to MED POL through the highest degree of efficient cooperation among the Secretariat, national structures, international organizations, and individuals participating in the implementation of MED POL⁴¹.

Activities

7.18 The stated objective shall be achieved by:

- guidance provided directly or indirectly by the Secretariat to all parties involved in MED POL; and
- close cooperation among all parties involved in MED POL.

⁴¹ Paragraph 17.10 of Agenda 21.

Means of implementation

7.19 The Secretariat shall coordinate all MED POL activities, in close cooperation with the National Coordinators for MED POL⁴², the national MED POL Collaborating Institutions, the specialized agencies of the United Nations system, as well as other international and intergovernmental organizations ready to offer or provide support.

7.20 The Meeting of the MED POL National Coordinators, as the subsidiary body of the Contracting Parties, will continue to review periodically the progress of MED POL, evaluate its results and advise the Contracting Parties on the strategies to be followed for its implementation.

7.21 The MED POL National Coordinators may establish *ad hoc* expert groups to advise them on specialized topics.

7.22 The coordination of the inputs from the specialized organizations of the United Nations system into MED POL will continue to be ensured through direct working level contacts with these organizations and periodic Inter-Agency Advisory Committee (IAAC) Meetings on MED POL.

7.23 The periodic meetings of the heads of RACs with the Secretariat will continue to be used to ensure: (a) the coordination between complementary activities of MAP implemented by the Secretariat and the respective RACs; and (b) the inputs of MED POL into activities carried out by RACs.

⁴² The modalities of cooperation are described in Section 4.

8. IMMEDIATE PRIORITIES FOR THE IMPLEMENTATION OF MED POL-PHASE III

8.1 In view of the fact that MED POL-Phase III encompasses a wide range of important activities that require urgent implementation, the MED POL budget should be increased substantially. However, since such an increase does not appear feasible through the MED Trust Fund, it is considered necessary to seek outside funding (see paragraph 7.8). Until such outside assistance is possible, it is recommended that, during the initial stage of its implementation, the MED POL Programme concentrate on a number of priority activities.

8.2 The following activities (not in order of priority), which are in line with the Priority Fields of Activities adopted by the Contracting Parties (Barcelona, 1995), are recommended:

- (a) Formulation, including the setting of priorities, and implementation of regional, subregional and national action plans, programmes and measures for the control of land-based pollution.

The implementation of the LBS Protocol will be the cornerstone of MED POL-Phase III. This implementation will be based on national and regional action plans, programmes and measures. In order to formulate such action plans, programmes and measures, MED POL-Phase III will establish the priorities in accordance with those set out in the annexes to the LBS Protocol, taking into account the characteristics of substances provided in Annex I to the Protocol.

- (b) Formulation and implementation of a programme of coastal zone trend monitoring on a regional basis.

On the basis of the experience gained through MED POL-Phases I and II and in view of the objectives of MED POL-Phase III, national monitoring programmes will have to be designed or redesigned in order to satisfy national needs and enable the results of the programme to be used as a management tool for controlling marine pollution. A number of fixed coastal stations from the national programmes will be selected for inclusion in a regional monitoring network for the establishment of trends in the Mediterranean. This programme will provide information that can be used for the assessment of the overall quality status of the Mediterranean Sea, as well as for the effectiveness of control measures taken.

- (c) Identification of sources (especially major "hot spots") and assessment of loads of pollution.

The preparation of inventories of point and non-point sources of pollution, particularly the land-based sources, and the monitoring of the pollution loads reaching the Mediterranean from these sources, is considered a high priority since such information is necessary for making management decisions. Within this context, a list of major pollution "hot spots" in the Mediterranean will be prepared and relevant action plans (with economic aspects and timetables) for reduction and elimination of pollution will be developed and implemented.

- (d) Assistance to countries for the formulation, development and implementation of national monitoring programmes.

Although considerable progress was achieved during MED POL-Phase II, in many cases, national monitoring programmes have not yet produced the expected results, either because the programme was not designed properly or was not implemented fully (temporal and spatial gaps) and the data were not of the required quality. Through MED POL-Phase III, assistance will be provided for the formulation of appropriate monitoring programmes to developing countries requesting it, as defined in paragraph 7.4.

- (e) Assistance to countries (including capacity-building) for the implementation and enforcement of adopted pollution control measures.

It is clear that without the proper implementation of the control measures the success of the programme will be jeopardized. In accordance with paragraph 6.12, assistance will be provided to facilitate the implementation and enforcement of measures to developing countries requesting it as defined in paragraph 7.4.

- (f) Eutrophication and biological effects to be considered as priority subjects for research.

From MED POL-Phase II results it appears that eutrophication is becoming a major problem at regional level. As a result, special attention should be given to this problem and extra efforts are required for its solution. Being very complex and involving a number of processes, more research is required to understand its causes, effects, geographical distribution and trends and eventually propose remedial action.

The Contracting Parties (Antalya, 1993) have decided to introduce monitoring of biological effects in the MED POL Programme. This is not possible unless reliable techniques that can be used routinely are developed. Research is required to assist in the final selection of the techniques and in developing and testing the methodologies.

ANNEX

MONITORING OF THE LEVELS AND EFFECTS OF CONTAMINANTS IN THE CONTEXT OF MED POL-PHASE III

1. Two basic types of monitoring are identified within the framework of the MED POL-Phase III Programme: compliance and trend monitoring. Surveys will also be carried out in order to complement the monitoring data and facilitate decision-making for management purposes.
2. Compliance monitoring is defined as the collection of data through surveillance programmes to verify that the regulatory conditions for a given activity are being met e.g. concentration of mercury in effluents. In the case of identifying an instance of non-compliance, appropriate enforcement can be established which can be escalated until compliance is achieved.
3. Trend monitoring is defined as the repeated measurement of concentrations or effects over a period of time to detect possible changes with time. This type of monitoring will provide information that can be used for the assessment of the state of the environment and the effectiveness of pollution control measures taken. If the effectiveness of measures is deemed inadequate, additional activities may be initiated such as the formulation of new measures or the revision of existing ones, etc.
4. Depending on the matrices and parameters included in the programme, monitoring will be carried out for the following purposes:

Compliance monitoring

- **Compliance monitoring of health-related conditions** (eg. sanitary quality of bathing areas and waters used for aquaculture, quality of seafood). This type of monitoring has a national significance, but data may also be used for regional assessments;
- **Compliance monitoring of effluents** to determine whether the adopted common measures concerning concentrations of contaminants in effluents (e.g. mercury, cadmium) are complied with; and
- **Compliance monitoring in "hot spot" areas** to determine whether the environmental quality objectives or limit values set are complied with (e.g. DDT in water).

Trend monitoring

- **Coastal zone trend monitoring**, through a regional network of selected fixed coastal stations, of parameters that contribute to the assessment of trends and the overall quality status of the Mediterranean Sea. As explained under Section 8, this type of monitoring will be carried out on a regional basis;
- **Trend monitoring in "hot spot" areas** (intensively polluted areas) and high risk areas that are likely to become heavily polluted, are subject to harmful seasonal phenomena such as algal blooms, or where control measures have been taken. This type of monitoring will be designed as necessary at the subregional level, and will be carried out on a national basis, and the data will be utilized for taking management decisions at a

local level, including the assessment of the effectiveness of the control measures taken;

- **Trend monitoring of loads** (e.g. from land-based sources of pollution in general or from identified sources, pollutants transported by atmosphere, pollutants carried by rivers) and assessment of loads originating from non-point sources. Data from this type of monitoring will be utilized locally but also for regional assessments; and
 - **Trend monitoring of biological effects** at different organizational levels, including molecular, cellular, physiological, behavioural, community and ecosystem levels, can also be used as an early warning system. This type of monitoring can be included in national monitoring programmes as well as in the regional trend programme.
5. In addition, surveys will be carried out to complement the monitoring data:
- surveys of health-related effects (e.g. occurrence of illnesses in bathers exposed to contaminated waters and sand and in consumers of seafood) will be carried out on a routine basis;
 - surveys of point and non-point land-based sources of pollution needed for the development, compilation and maintenance of inventories, will be carried out; and
 - baseline and trend surveys through international and multinational cruises of the whole Mediterranean Sea will be conducted at periodic intervals (once every five or ten years) in order to contribute to the assessment of the overall quality status of the Mediterranean Sea.

Matrices to be monitored

6. The matrices (one or several) included in monitoring programmes will depend on the objective and purpose of the monitoring. The most common matrices which could be included in monitoring programmes are:
- (a) effluents reaching the marine environment from industrial plants, municipal sewerage systems and agriculture drainage channels;
 - (b) waters, sediments and biota (which also include individuals, populations and communities of marine mammals and sea birds) of marine coastal zones and estuaries which are, or are likely to be, under the direct impact of identifiable point or non-point source(s) of pollution;
 - (c) atmosphere through which pollutants may enter the marine environment and thus affect its quality; and
 - (d) humans who may be affected by pollutants through direct or indirect exposure to polluted marine media, or products (e.g. food) derived from such media.

Parameters or indicators to be monitored

7. Parameters or indicators to be monitored will vary from case to case, i.e. will be site and problem specific. They may include one or several of the following types of physical, chemical or biological parameters or health-related indicators:

- physical and chemical properties of the monitored abiotic media;
- the concentration of a specific chemical compound or group of compounds in a given matrix;
- marine ecosystem health on molecular, cellular, individual organism, community and ecosystem levels (e.g. bioassays, teratogenic or genetic changes if appropriate, biomarkers, histopathology, physiology, population structure);
- sanitary quality of media used by people (e.g. microbiological quality of bathing waters), or for food production (e.g. quality of waters used for and by aquaculture);
- ecological effects of coastal aquaculture (land-based and marine facilities);
- health effects on humans exposed to contaminated media (e.g. bathers) or products (e.g. contaminated shellfish) derived from such media;
- marine litter.

8. In case of compliance monitoring, the selection of the parameter(s) to be monitored is determined by the pollution control measure whose compliance is being monitored.

Programme design⁴³

9. For both compliance and trend monitoring, it is essential that the question being posed is both testable and specific, i.e. within a statistical context. The question must relate to a specific environmental compartment, i.e. water, suspended material, sediment or biota. The sequence then is:

- to identify meaningful levels of change and the confidence limits of that change that are to be detected (e.g. with what precision can a 20 per cent loss in number of species of a benthic sediment-living community be detected?);
- to obtain knowledge of special and temporal variability of the element being sampled from a desk study or pilot study;
- application of power analyses is essential in order to rationalize the programme⁴⁴;
- selection of elements of the programme taking into account logistic constraints⁴⁵;

⁴³ See Guidelines for monitoring chemical contaminants in the sea using marine organisms. UNEP Reference Methods for Marine Pollution Studies No. 6.

⁴⁴ See Peterman, R.M. and M'Gonigle, M., Statistical Power Analysis and the Precautionary Principle, Marine Pollution Bulletin, Vol. 24, No. 5, pp. 231-234, 1992.

⁴⁵ See also new experimental designs (Underwood, Aust. J. Mar. Sci. 1993).

- define data quality objectives and decide *a priori* on the statistical methods to be applied in analysing the data; and
- to select sampling sites and sampling frequency based on the foregoing information.

Data Quality Assurance Programme

10. Following the design of a scientifically-based national monitoring programme, a Data Quality Assurance (DQA) programme is required to ensure data reliability. The required quality assurance must address all aspects of the programme, including:

- trained staff;
- appropriate facilities, sampling and measurement equipment and other consumables;
- regular calibration, maintenance, and servicing of the equipment;
- sampling that conforms to sampling design (see paragraph 9);
- sample handling procedures, including, for example, transportation, preservation, storage, tissue dissection, bone grinder, homogenization, sub-sampling (sub-sampling includes all steps up to the measurement);
- regular checks of accuracy and precision of routine measurements, by analyses of appropriate reference materials (when available) and the documentation of the results on control charts;
- external quality assessment (e.g. participation in intercomparison exercises);
- standard operating procedures (written protocols with precise descriptions of all elements of the measurements and quality control procedures);
- record of all calculations such as data translation and transcriptions prior to final documentation (record books and/or computers);
- data evaluation procedures (e.g. converting data into a report).

11. The results obtained by sampling, measurement and observation must be of adequate quality not only analytical (accuracy and precision) but also meet the requirements of the objectives⁴⁶ and be comparable on a Mediterranean-wide basis. Failure to include DQA information with the submission of monitoring data will mean that the data may not be included in the MED POL database and therefore will not be considered in the overall evaluation. The results must be reported to the Secretariat according to agreed formats and schedules, in order to satisfy the reporting requirements. The Secretariat will assist countries in the interpretation of data.

⁴⁶ The experience with quality assurance programmes, largely based on the practices of MED POL, is described in *Contaminant Monitoring Programmes using Marine Organisms: Quality Assurance and Good Laboratory Practice* (Reference Methods for Marine Pollution Studies No.57, UNEP, 1990).

ANNEX V

MEDITERRANEAN COMMISSION ON SUSTAINABLE DEVELOPMENT TERMS OF REFERENCE

Introduction

1. In accordance with the recommendation of the Tunis Ministerial Conference, held in November 1994, as approved by the Conference of Plenipotentiaries meeting in Barcelona in June 1995, a Mediterranean Commission on Sustainable Development (MCSD) is hereby established as an advisory body to make proposals to the Contracting Parties within the framework of the Mediterranean Action Plan.
 - A. Purpose of the Commission
 2. The purpose of the Commission is:
 - (a) to identify, evaluate and assess major economic, ecological and social problems set out in Agenda MED 21, make appropriate proposals thereon to the meetings of the Contracting Parties, evaluate the effectiveness of the follow-up to the decisions of the Contracting Parties and facilitate the exchange of information among the institutions implementing activities related to sustainable development in the Mediterranean;
 - (b) to enhance regional cooperation and rationalize the inter-governmental decision-making capacity in the Mediterranean basin for the integration of environment and development issues.
 - B. Functions
 3. The functions of the Commission shall be:
 - (a) to assist the Contracting Parties by making proposals on in the formulation and implementation of a regional strategy of sustainable development in the Mediterranean, taking into consideration the resolutions of the Tunis and Barcelona Conferences and the context of Agenda MED 21 and MAP Phase II;

- (b) to consider and review information provided by the Contracting Parties, in accordance with Article 20 of the Barcelona Convention, including

periodic communications or reports regarding the activities they undertake to implement Agenda MED 21, and the problems they encounter, such as problems related to the integration of environment into national policies, capacity-building, financial resources, technology transfer, and other relevant environment and development issues;
- (c) to review at regular intervals the cooperation of MAP with the World Bank and other international financial institutions, as well as the European Union, and to explore ways and means for the strengthening of such cooperation, and particularly to achieve the objectives of Chapter 33 of Agenda MED 21;
- (d) to consider information regarding the progress made in the implementation of relevant environmental conventions, which could be made available by the relevant conferences or by the parties;
- (e) to identify technologies and knowledge of an innovative nature for sustainable development in the Mediterranean region and to provide advice on the various means for their most effective use, in order to facilitate exchanges among the Contracting Parties and to enhance capacities for national development;
- (f) to provide reports and appropriate recommendations to the meetings of the Contracting Parties, through the MAP Secretariat, on the basis of a comprehensive analysis of reports and issues related to the implementation of a regional strategy related to MAP Phase II and Agenda MED 21;
- (g) to undertake a four-year strategic assessment and evaluation of the implementation by the Contracting Parties of Agenda MED 21 and decisions of the meetings of the Contracting Parties and of actions by the Contracting Parties relevant to sustainable development in the Mediterranean region and propose relevant recommendations thereon; the first strategic review should be undertaken for the year 2000 (with ministerial participation), with the objective of achieving an integrated overview of the implementation of Agenda MED 21, examining emerging policy issues and providing the necessary political impetus.
The Commission shall make the best use of the main results of MAP activity centres in the field of sustainable development, and those of the MAP Mediterranean Environment and Development Observatory, as well as those of national environmental observatories;

(h) to assume such other functions as are entrusted to it by the meetings of the Contracting Parties, to further the purposes of the Barcelona Convention, MAP Phase II and Agenda MED 21.

4. The rules of procedure of the Commission shall be the Rules of Procedure of the meetings and Conferences of the Contracting Parties to the Barcelona Convention, until the rules of procedure of the Commission are proposed by the Commission and adopted by the meeting of the Contracting Parties, considering that the Commission shall not have any voting system.

C. Composition

5. The Commission shall be composed of a maximum of 36 members, consisting of representatives from each Contracting Party to the Barcelona Convention and representatives of local authorities, socio-economic actors and non-governmental organizations working in the fields of environment and of sustainable development. All representatives shall participate in the Commission on an equal footing.

D. Observers

6. In accordance with the Rules of Procedure adopted by the Contracting Parties to the Barcelona Convention, any State which is a member of the United Nations or the specialized agencies, and any other inter-governmental organizations the activities of which are related to the functions of the Commission, may participate in the Commission's work as an observer.

E. Meetings of the Commission and responsibilities of the Secretariat

7. The Mediterranean Commission on Sustainable Development shall hold ordinary meetings at least once every year, up to the year 2000, then shall meet at least once every two years. The meetings shall be convened at the premises of the Coordinating Unit of MAP, without prejudice to the convening of its meetings in other Mediterranean venues upon a recommendation of the Commission approved by the Meeting of the Contracting Parties.
8. At the opening of each session, the Commission shall elect a Bureau composed of a President, four Vice-Presidents and a Rapporteur, from among its members on the basis of an equitable geographical distribution and among the various groups.
9. The Coordinating Unit of MAP, serving as the Secretariat of the Commission, shall provide for each session of the Commission an analytical report containing

information on relevant activities to implement Agenda MED 21 and other sustainable development activities recommended by the meetings of the Contracting Parties, the progress achieved and emerging issues to be addressed.

F. Relationship with the United Nations Commission on Sustainable Development and with national and regional commissions on sustainable development

10. The Commission shall maintain relations with the United Nations Commission on Sustainable Development, and shall facilitate the exchange of information and experience among national and regional commissions on sustainable development.
11. The Commission, in discharging its functions, shall take into account the experience and expertise of the United Nations Commission on Sustainable Development, and shall submit relevant reports to the United Nations Commission through the Contracting Parties' meetings on any issues that may be of interest for sustainable development in the Mediterranean region.
12. The Commission and the Contracting Parties shall, as far as possible and taking into account the particular needs of the Mediterranean countries, utilize the existing reporting system of the United Nations Commission on Sustainable Development, with a view to streamlining and avoiding duplication of work.

G. Relations with specialized agencies, intergovernmental organizations and non-governmental organizations

13. The Commission shall, through the Secretariat, strengthen its activities with the relevant United Nations specialized agencies and other inter-governmental bodies within the United Nations System, including international, regional and sub-regional financial and development institutions, in particular regarding projects for the implementation of the regional Mediterranean strategy related to Agenda MED 21 and the decisions of the Contracting Parties.
14. The Commission shall, through the Secretariat, enhance the dialogue with, and the participation of, relevant non-governmental organizations (NGOs) and the independent sector, and receive and analyse their inputs within the context of the overall implementation of the Mediterranean regional strategy for sustainable development.

ANNEX VI

MEDITERRANEAN COMMISSION ON SUSTAINABLE DEVELOPMENT (MCSD)

COMPOSITION OF THE COMMISSION *

(a) NUMBER OF REPRESENTATIVES

1. The Commission shall be composed of 36 members, consisting of representatives from each Contracting Party to the Barcelona Convention and representatives of local authorities, socio-economic actors and non-governmental organizations working in the fields of environment and sustainable development.
2. In particular:
 - a. each Contracting Party to the Barcelona Convention shall be represented by one high-level representative (total 21), who may be accompanied by such alternates and advisers as may be required, in order to ensure interdisciplinary participation of relevant ministerial bodies of the Contracting Parties (e.g. ministries of environment, tourism, economy, development, industry, finance, energy, etc.).
 - b. each of the three categories mentioned in section C.5 of the text of the Terms of Reference, i.e. local authorities, socio-economic actors and non-governmental organizations, shall be represented by five representatives (total 15) and an equal number of alternates, to be selected by the meeting of the Contracting Parties.
3. All 36 members shall participate in the Commission on an equal footing.

* This criteria may be modified by the Contracting Parties in the light of experience.

(b) **METHOD OF NOMINATION OF CANDIDATES OTHER THAN THOSE REPRESENTING THE CONTRACTING PARTIES**

a. Method of nomination of candidates

(i) local authorities

As the legal and administrative status of local authorities differs from one country to another, the representatives of the local authorities, their groups or networks, will be selected through proposals from the governments of the Contracting Parties, which transmit their candidatures to the Secretariat of MAP.

(ii) Socio-economic actors

As the legal and administrative status of the socio-economic actors differs from one country to another, the representatives of the socio-economic actors, their groups or networks, will be selected through proposals from the governments of the Contracting Parties, which transmit their candidatures to the Secretariat of MAP.

(iii) NGO's

1. The criteria and the list of MAP/NGO partners approved by the Ninth Ordinary Meeting of the Contracting Parties (Barcelona, 5-8 June 1995), shall be used as the reference text for any NGO that wishes to participate in the Commission' s work.

2. Three categories of NGO's shall be represented in the Commission:

- NGOs with international scope and multidisciplinary interest recognized in their status, especially those contributing to Mediterranean cooperation and concerned with matters covering a substantial portion of MAP's field of activity;

- NGOs with regional scope covering more than one country in the whole Mediterranean area and covering a portion of MAP' s field of activity;
 - NGOs with national or local scope covering a portion of MAP' s field of activity.
3. The selection of five NGOs from this category will be done through NGO networks in the region and through direct applications to be submitted to the MAP Secretariat.
- b. Method of nomination of members of the MCSD
- 1. The meeting of the Contracting Parties shall nominate the members of the Commission, other than those representing the Contracting Parties.
 - 2. For the first meeting of the Commission (Fez, Morocco, December 1996), the Bureau of the Contracting Parties shall make the selection of the members of the Commission, following consultation with the Contracting Parties.

(c) SELECTION CRITERIA FOR MEMBERS OTHER THAN THOSE REPRESENTING THE CONTRACTING PARTIES

The following general selection criteria are proposed:

- 1. The criteria and the list of MAP/NGO partners, approved by the Ninth Ordinary Meeting of the Contracting Parties held in Barcelona, 5-8 June 1995 (document: UNEP(OCA)/MED IG.5/16), shall be used as a reference text for selection of members representing NGOs.
- 2. Priority for selection shall be given to Mediterranean local authorities, socio-economic actors and NGOs that are concerned with environmental and sustainable development issues in the Mediterranean.
- 3. The principle of equitable geographical distribution should be respected (north/south and east/west).

4. Fragile and island ecosystems will be given due consideration.
5. With reference to the three specific categories, the following are the selection criteria, giving priority to the groups or networks concerned:

(i) local authorities

1. Local authorities to be selected should be concerned with environmental and sustainable development issues.

(ii) Socio-economic actors

1. Selection within this group should take into consideration the major problems and decisive factors in the Mediterranean as well as the following factors:
 - north/south representation
 - developed/developing countries
 - rural/urban
 - past and current activities at the Mediterranean level.
2. Priority of selection shall be given to socio-economic networks active in the Mediterranean.

(iii) NGOs

1. The members representing NGOs should be selected from the list of MAP/NGO partners.
2. The members should be selected from among three NGO categories:
 - NGOs with global scope
 - NGOs with regional scope

- NGOs with national and local scope
3. The NGOs to be selected should have a concrete and action-oriented approach towards the Mediterranean.

(d) DURATION OF THE MANDATE

1. The duration of the membership of the Commission shall be as follows:
 - a. all Contracting Parties to the Barcelona Convention shall be permanent members of the Commission (21);
 - b. representatives from each of the three categories (local authorities, socio-economic actors and non-governmental organizations), shall be selected for a duration of two years by the meeting of the Contracting Parties (15);